

FIG. 1

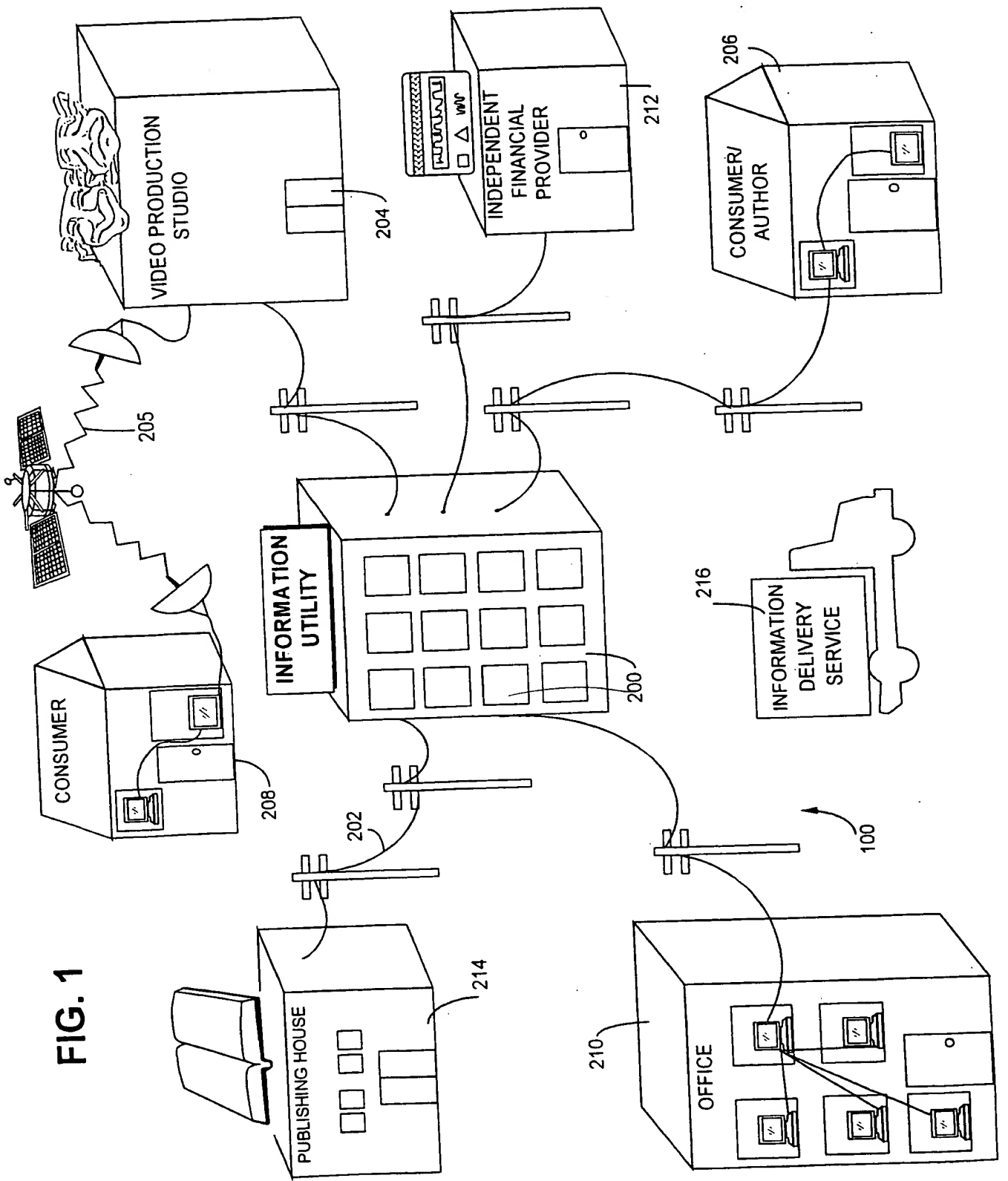


FIG. 1A

TO VDE PARTICIPANT 1

TO VDE PARTICIPANT N

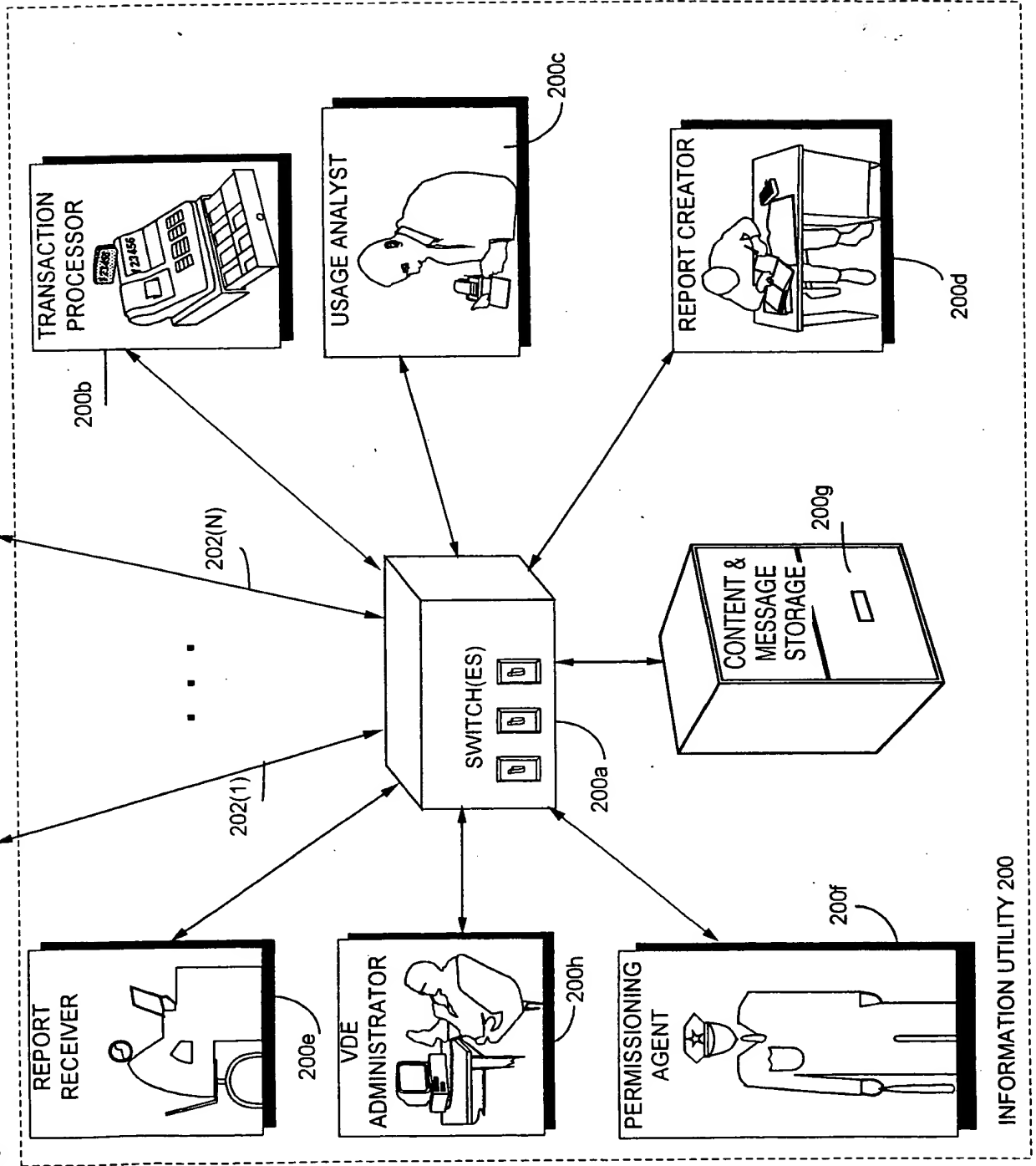


FIG. 2

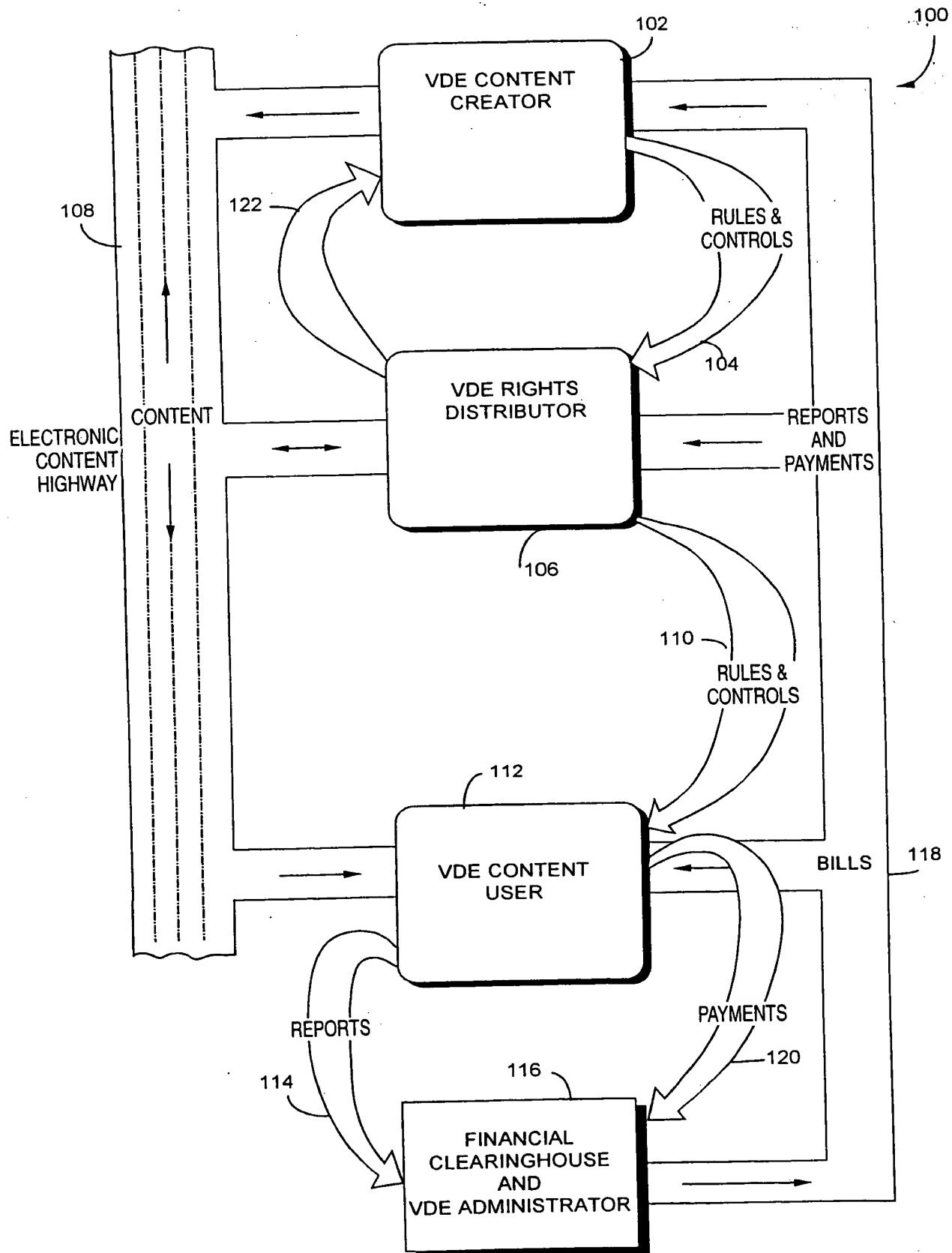


FIG. 2A

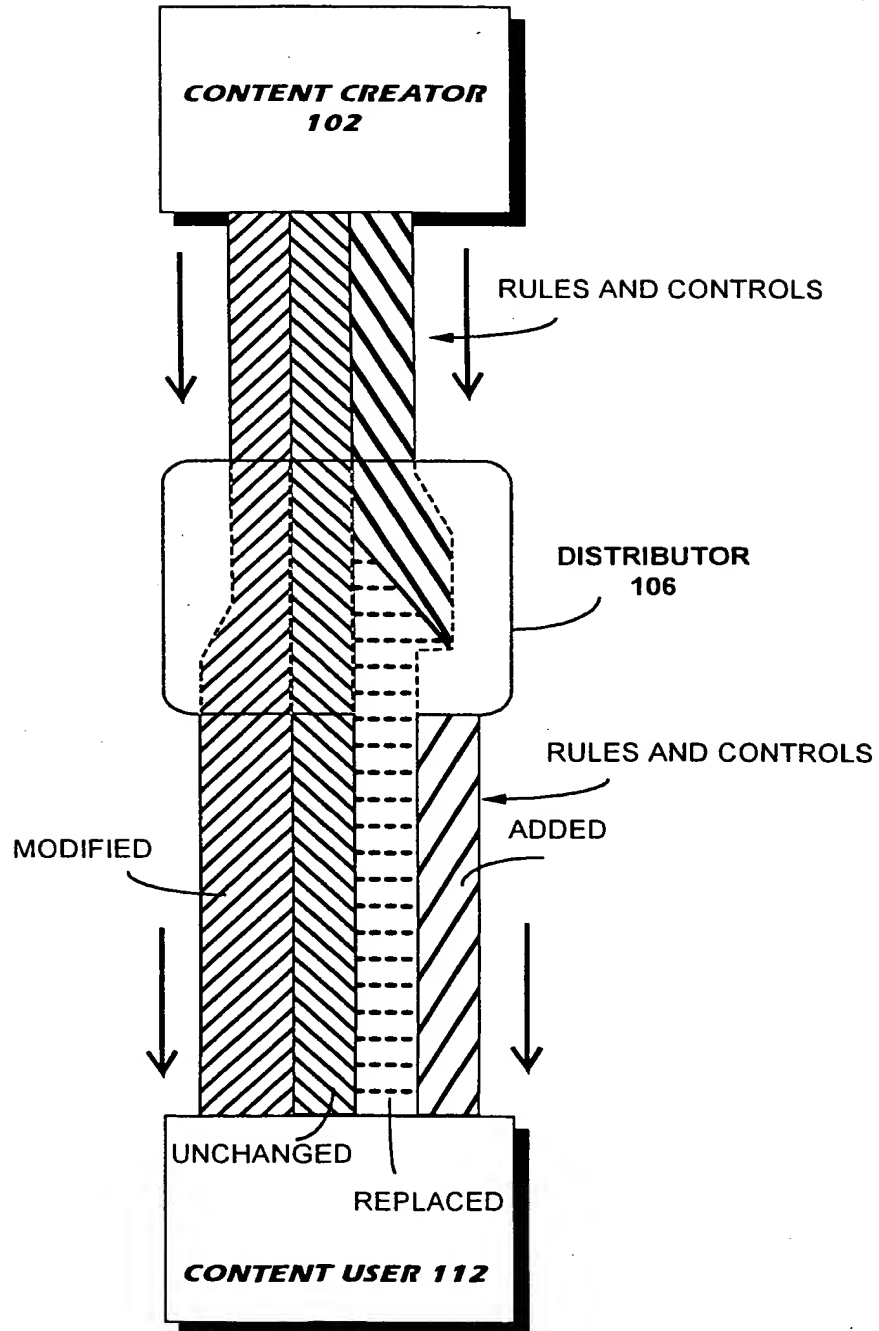
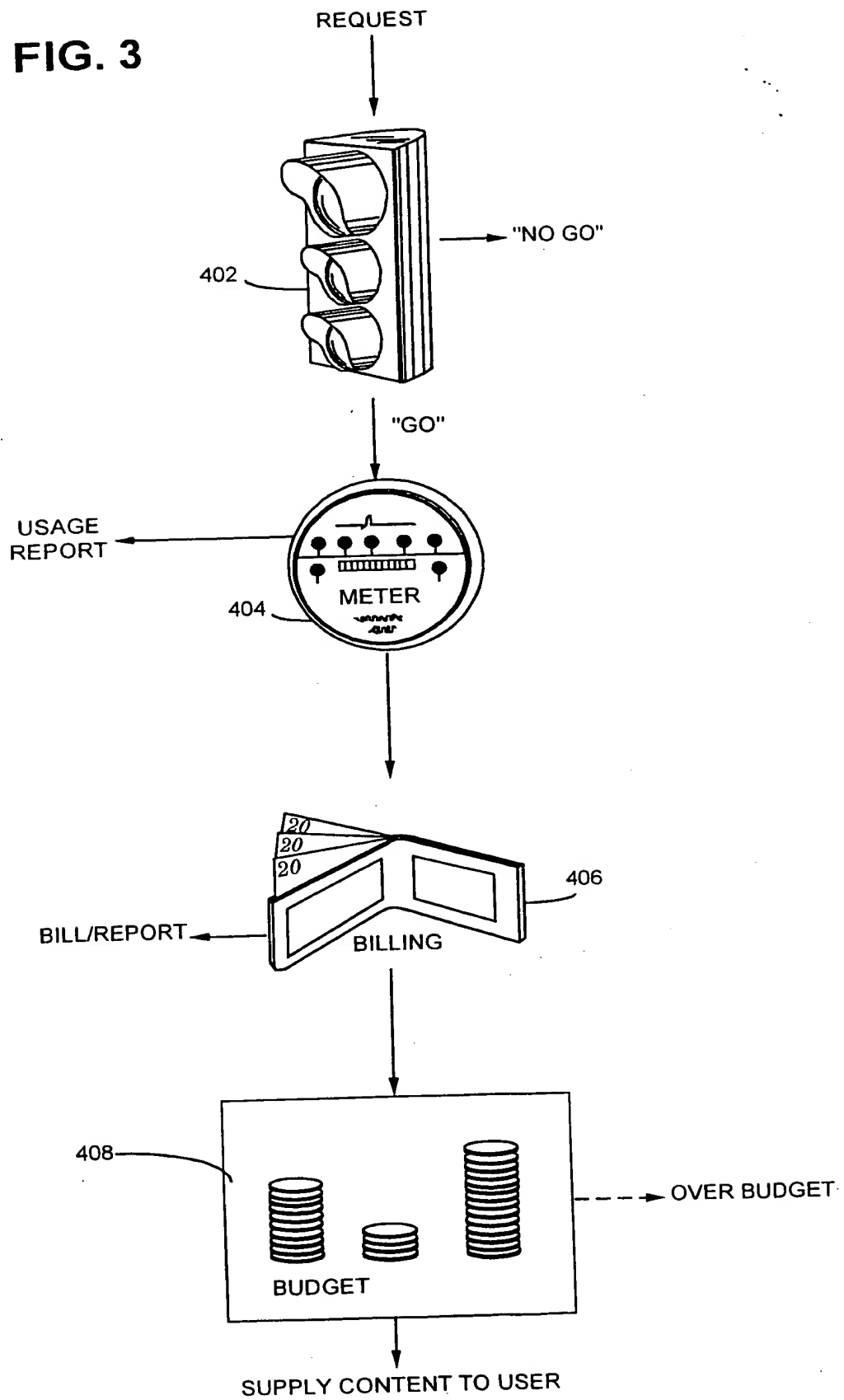


FIG. 3



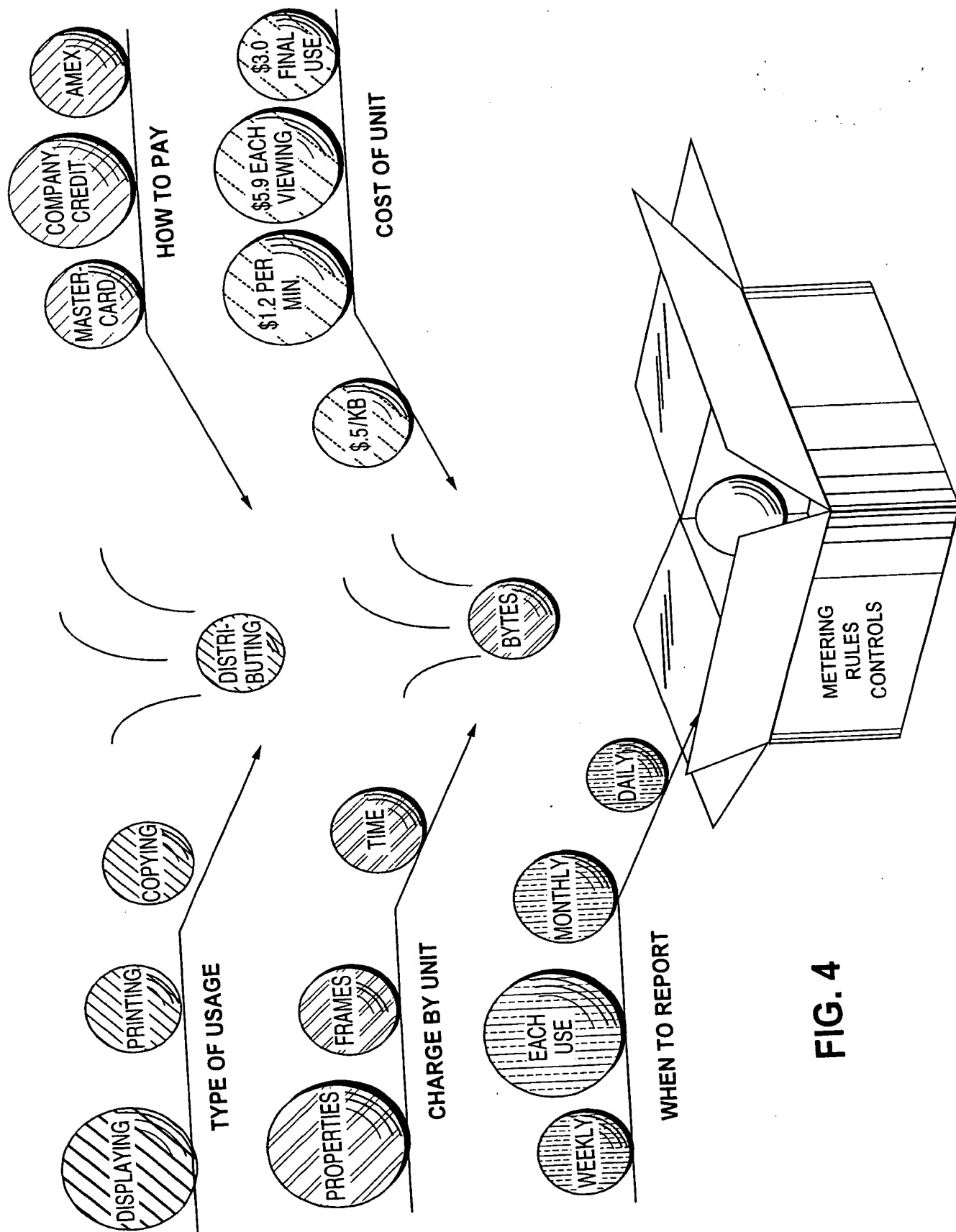


FIG. 4

FIG. 5A

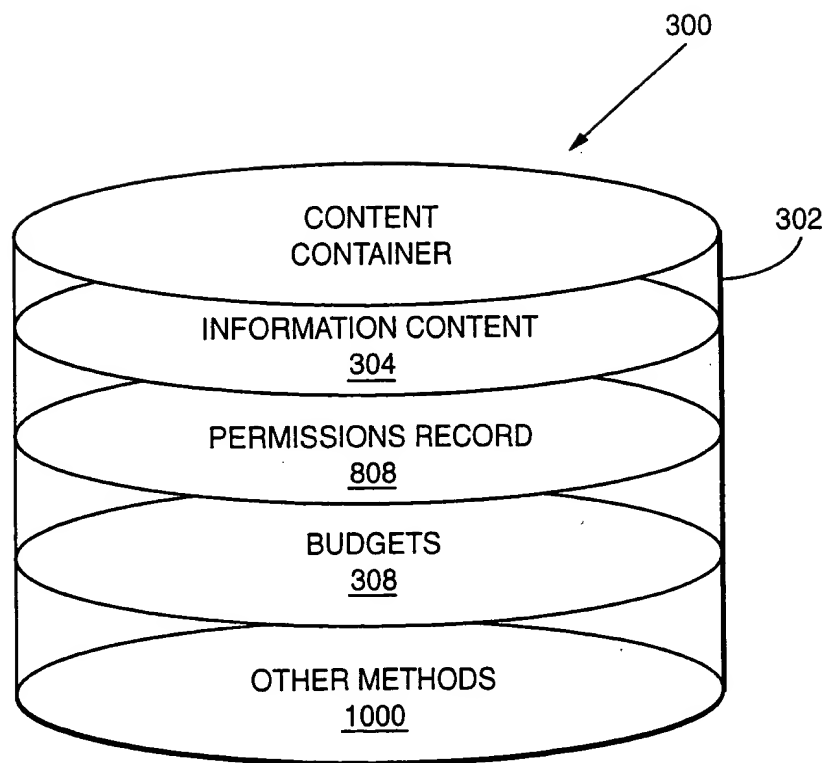
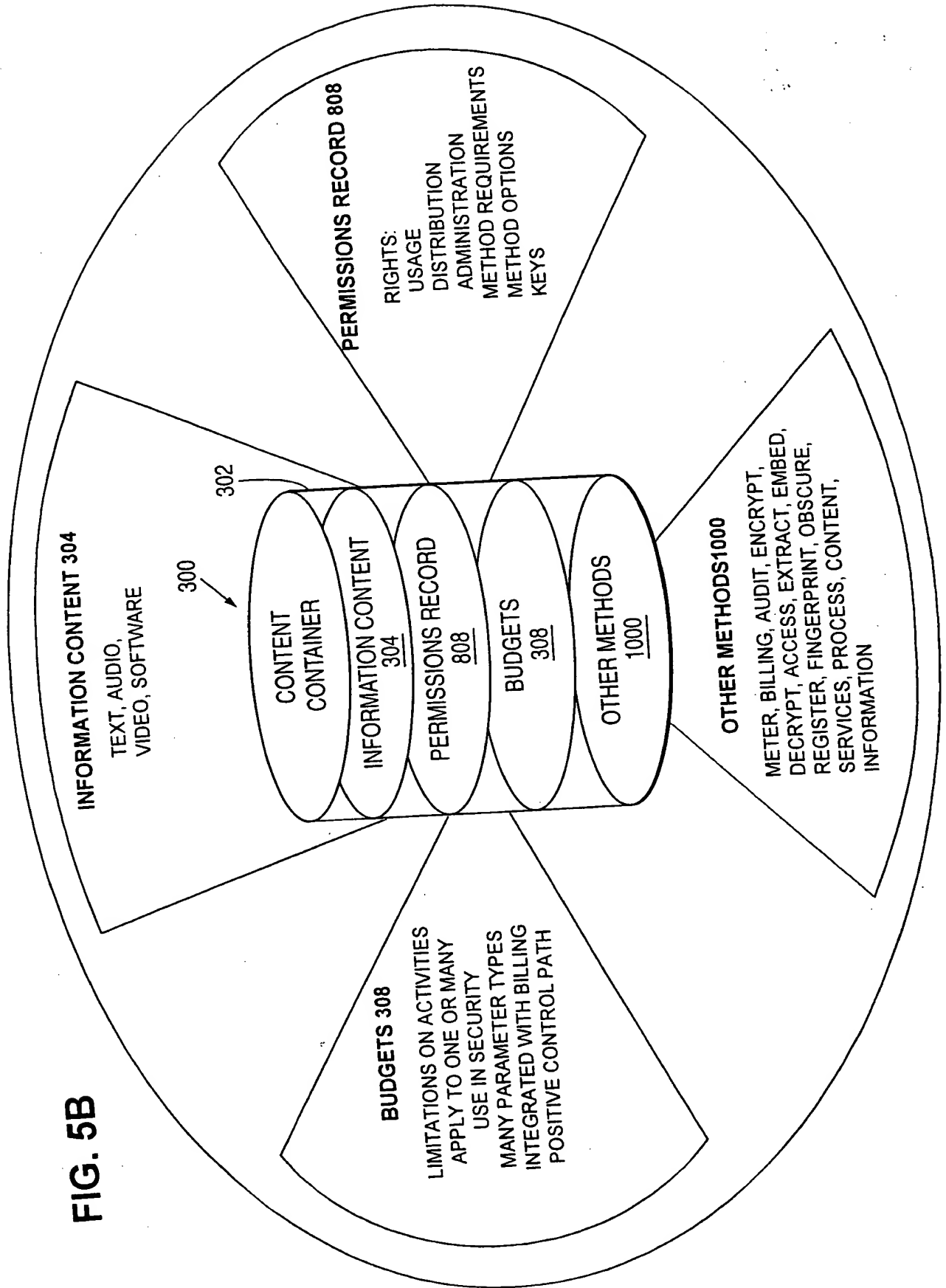


FIG. 5B



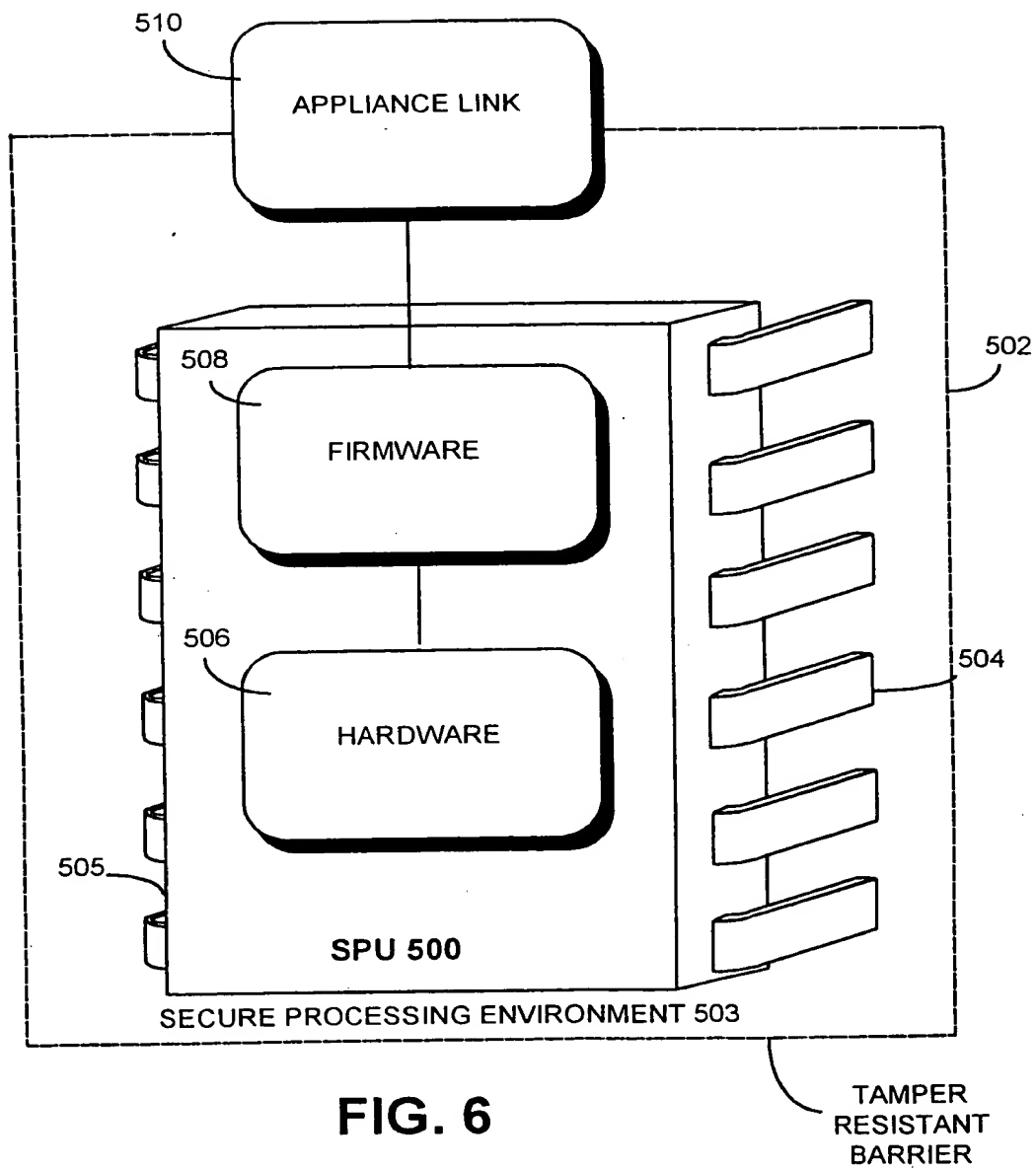


FIG. 6

FIG. 7

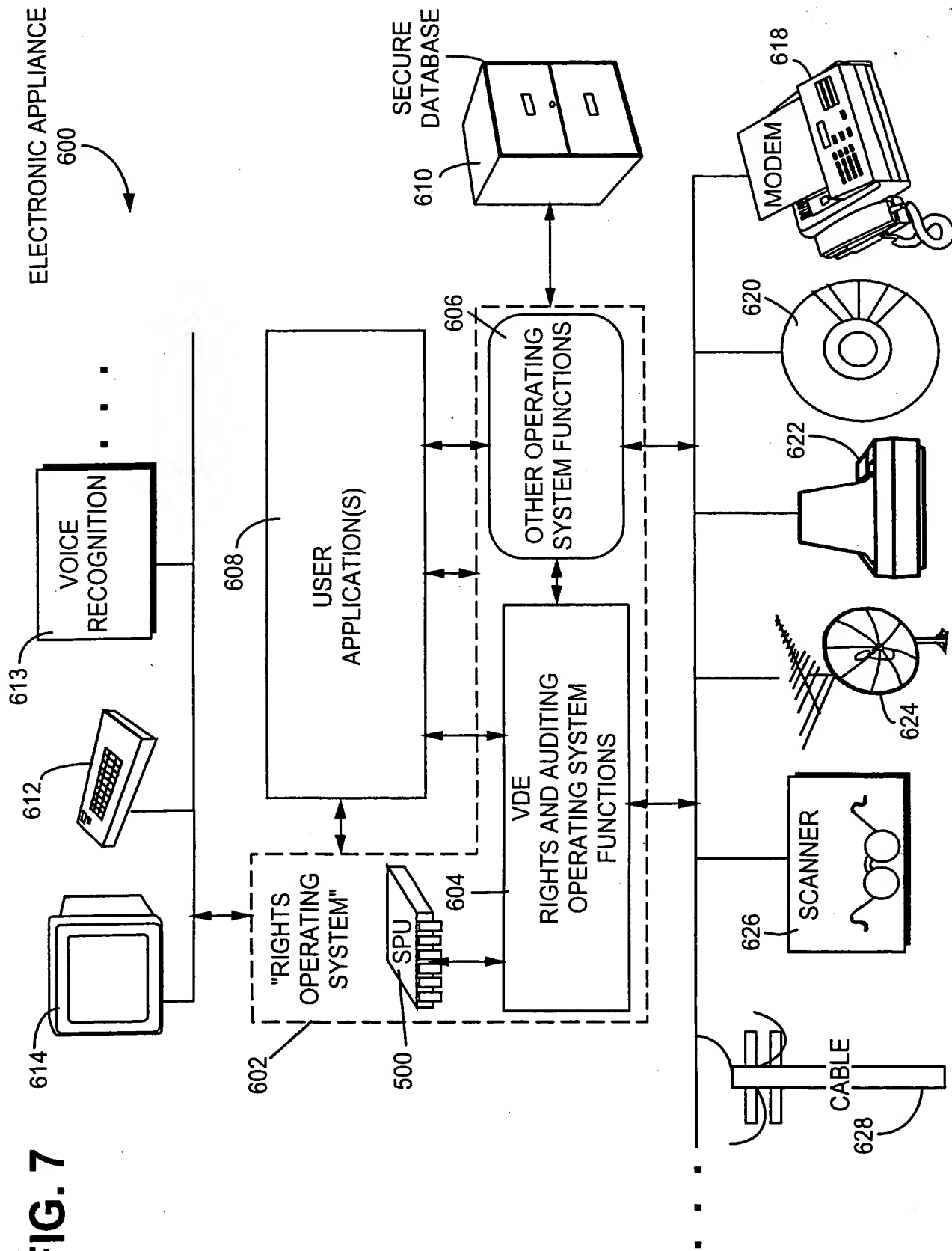
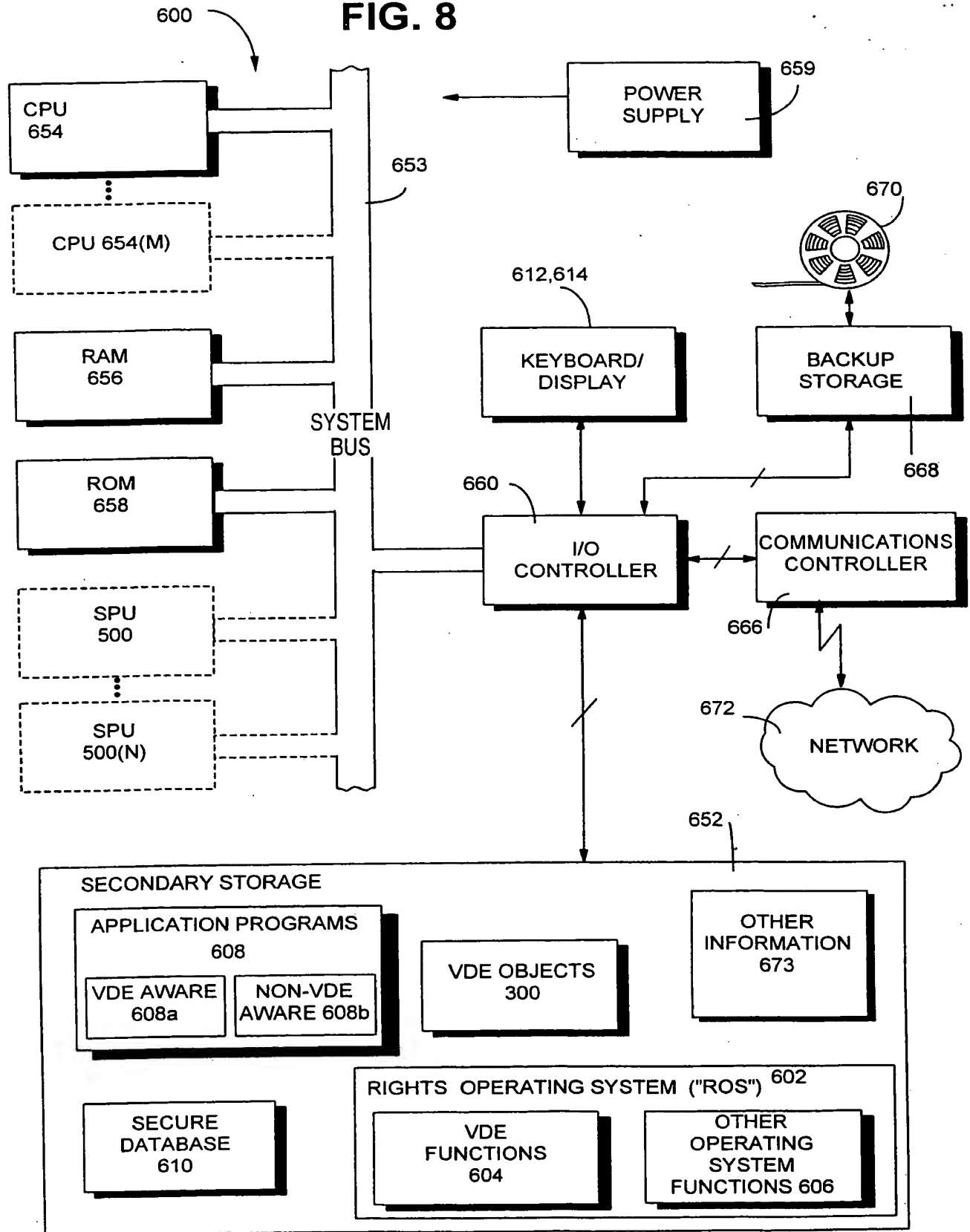


FIG. 8



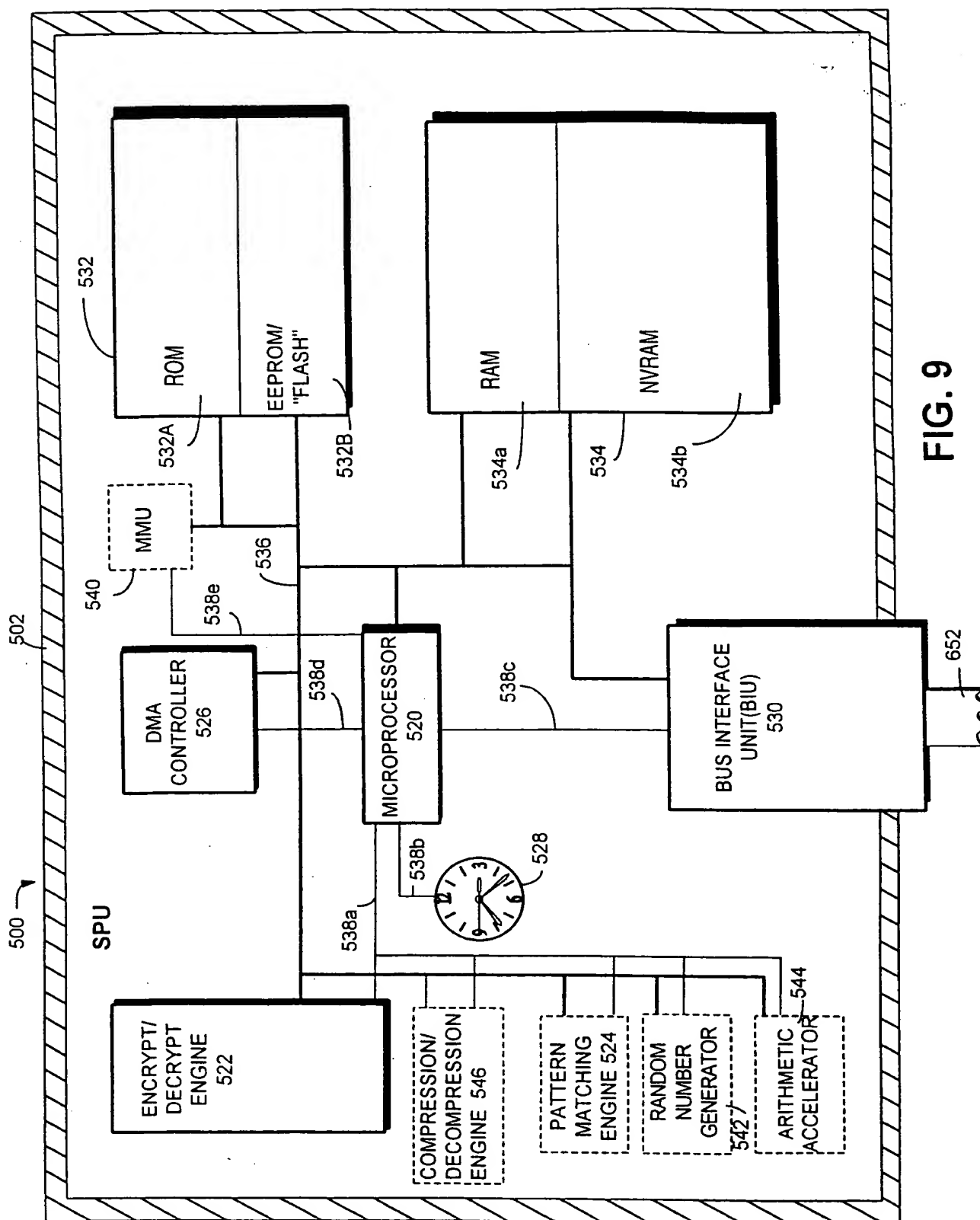


FIG. 9

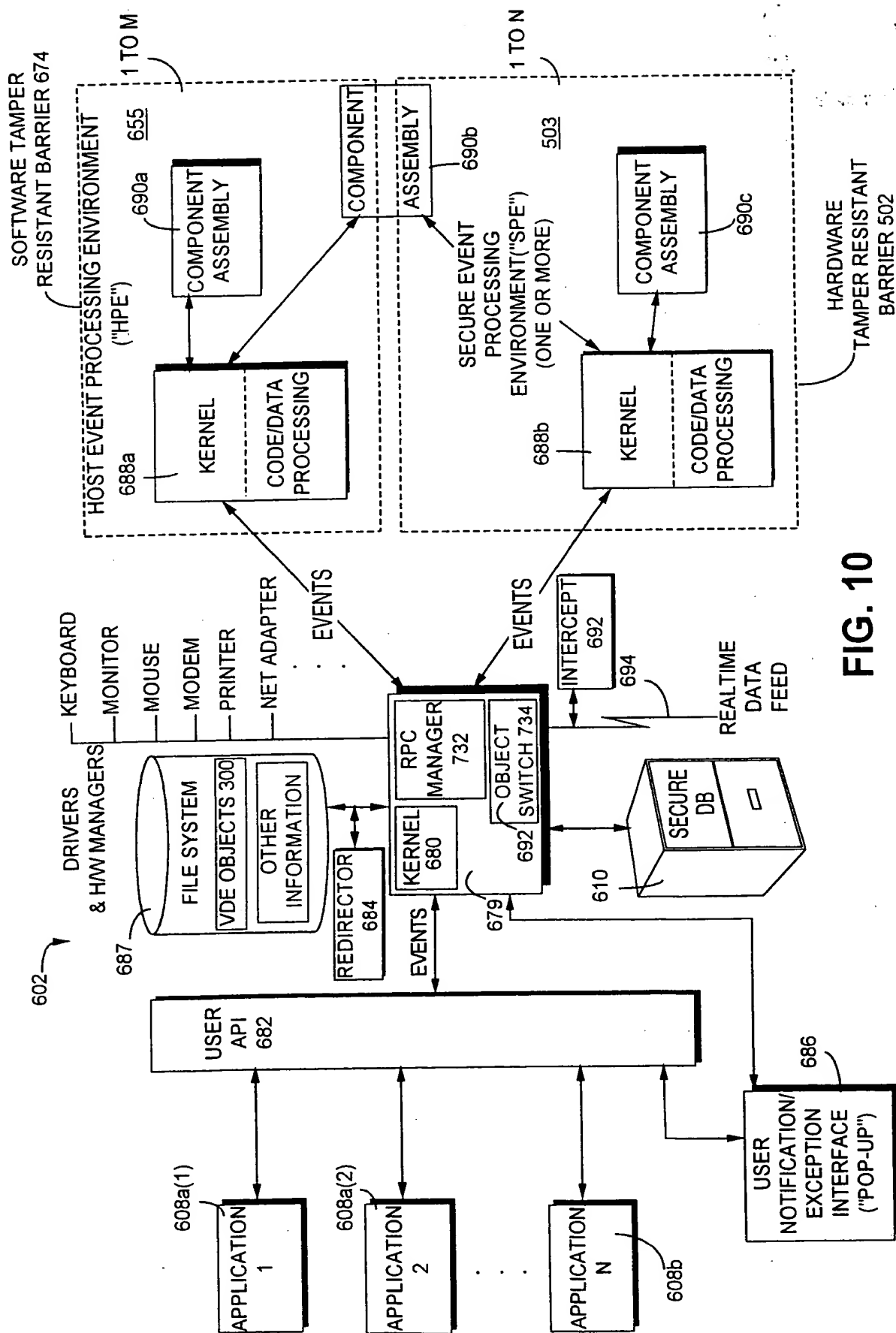


FIG. 11C

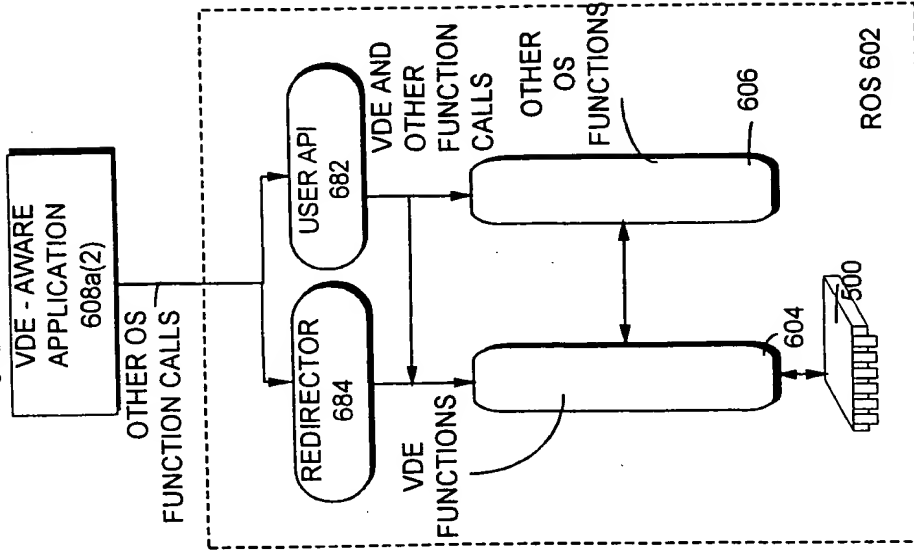


FIG. 11B

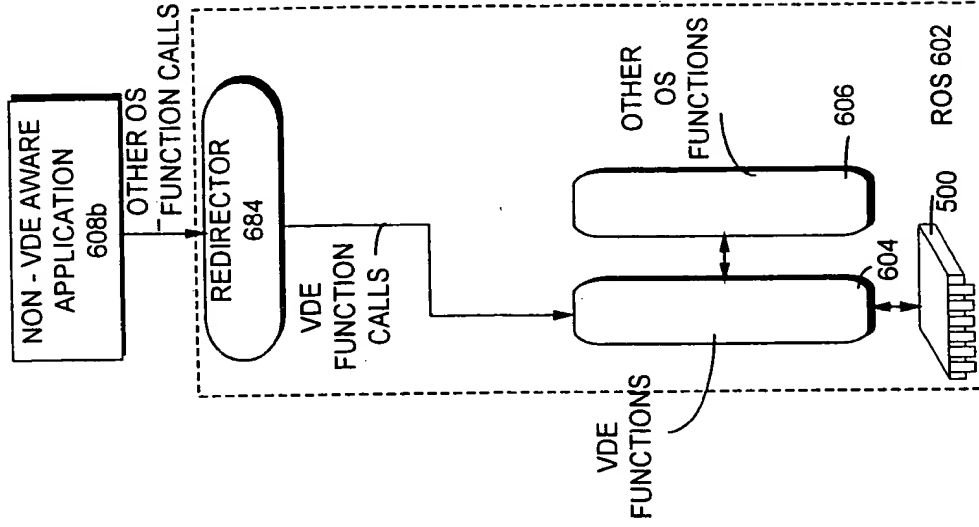
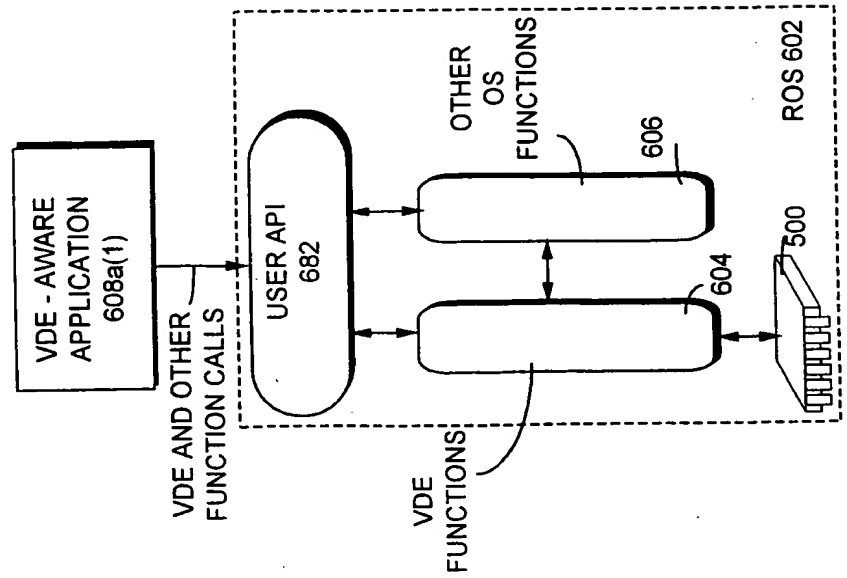


FIG. 11A



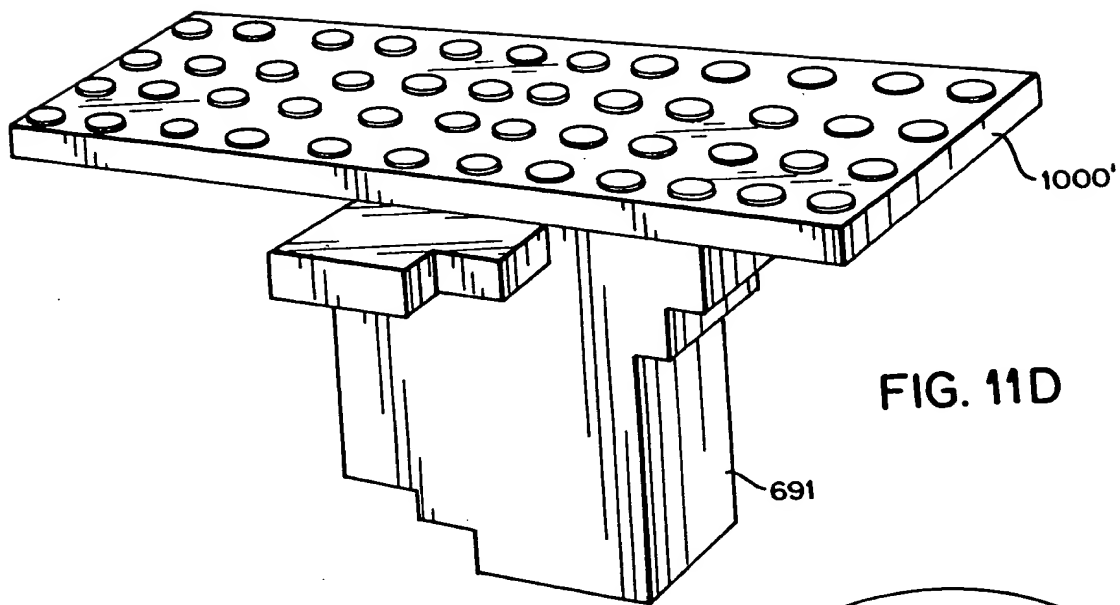


FIG. 11D

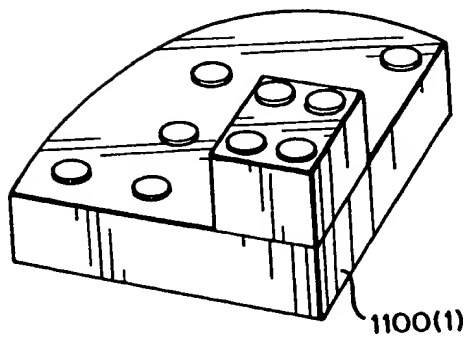


FIG. 11E

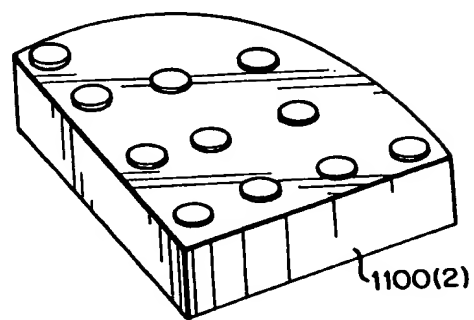


FIG. 11F

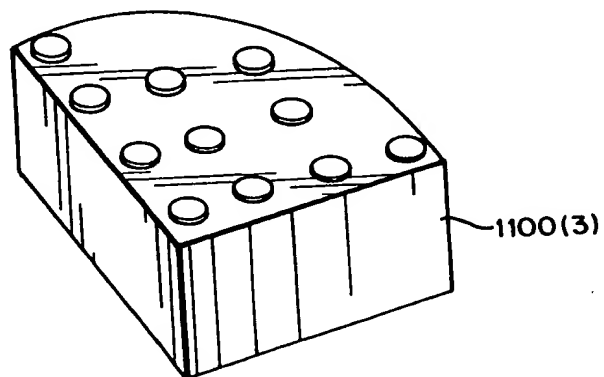


FIG. 11G

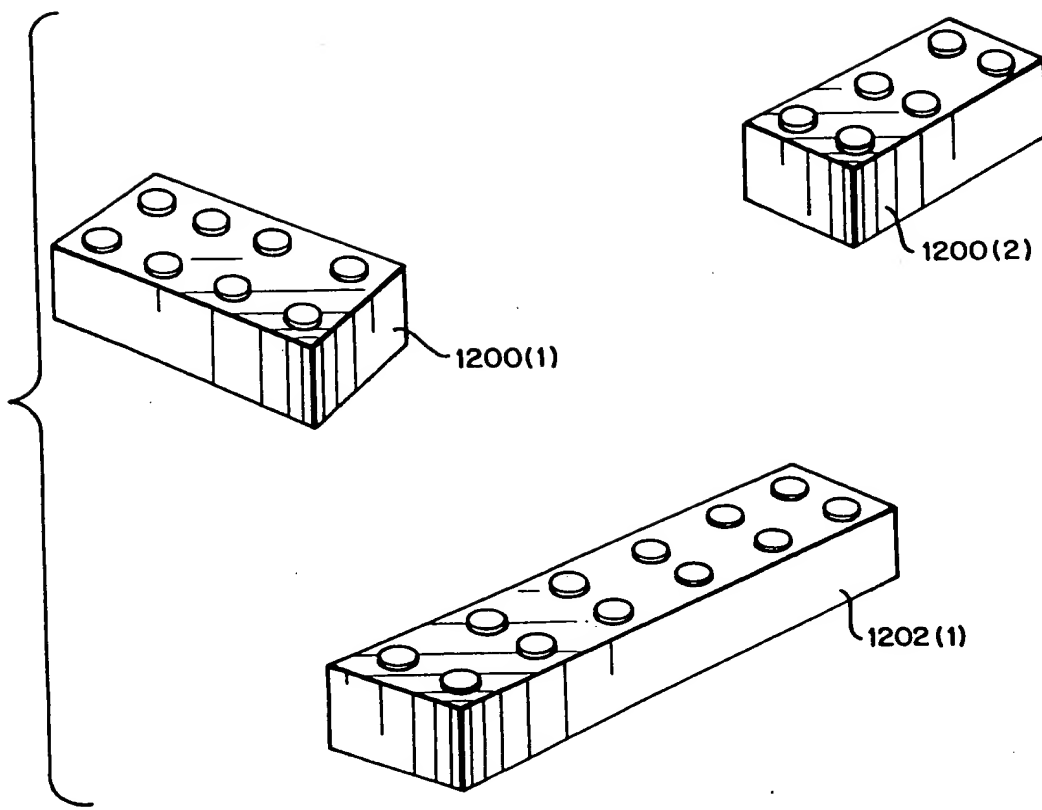
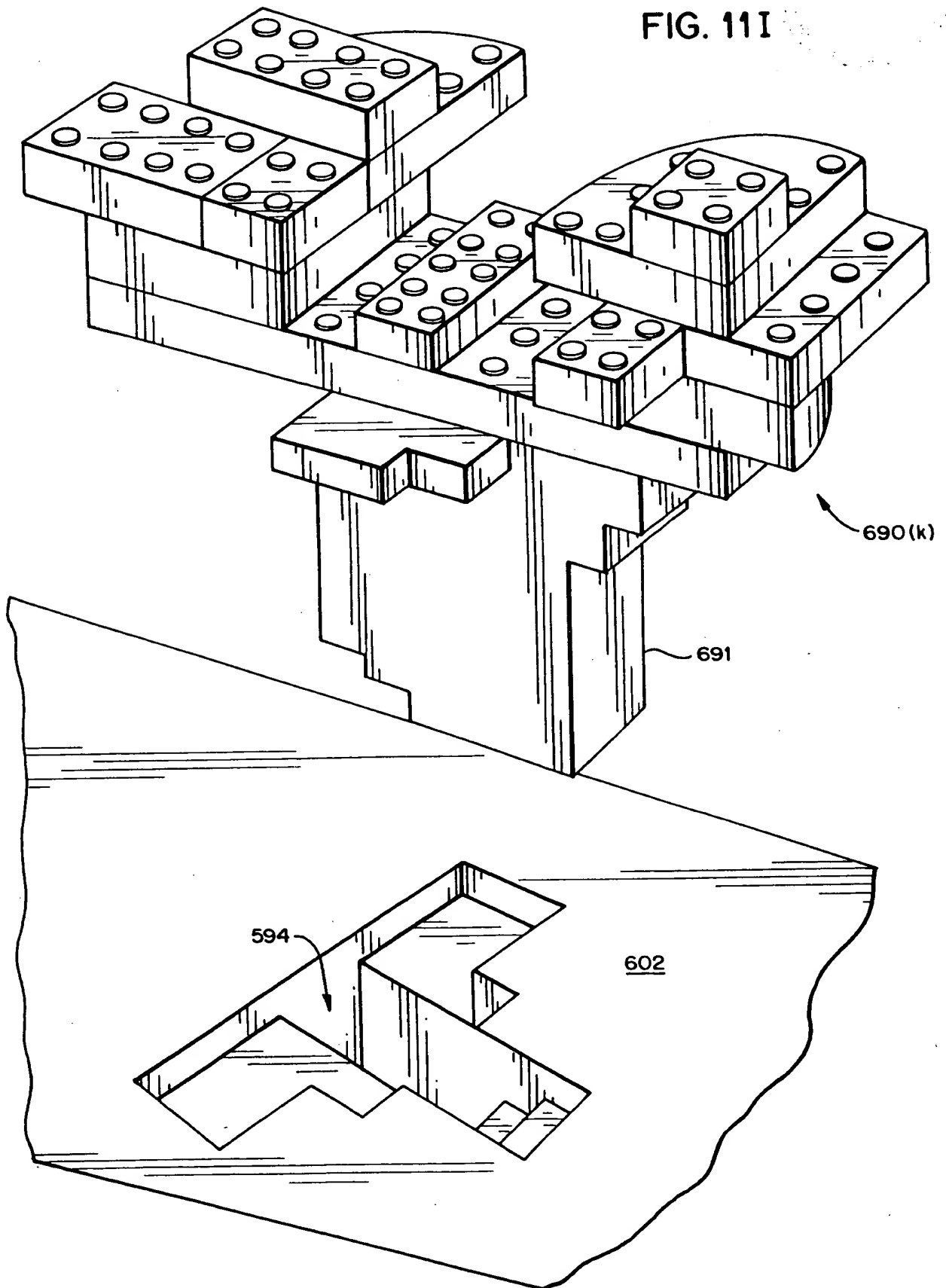


FIG. 11H

FIG. 11I



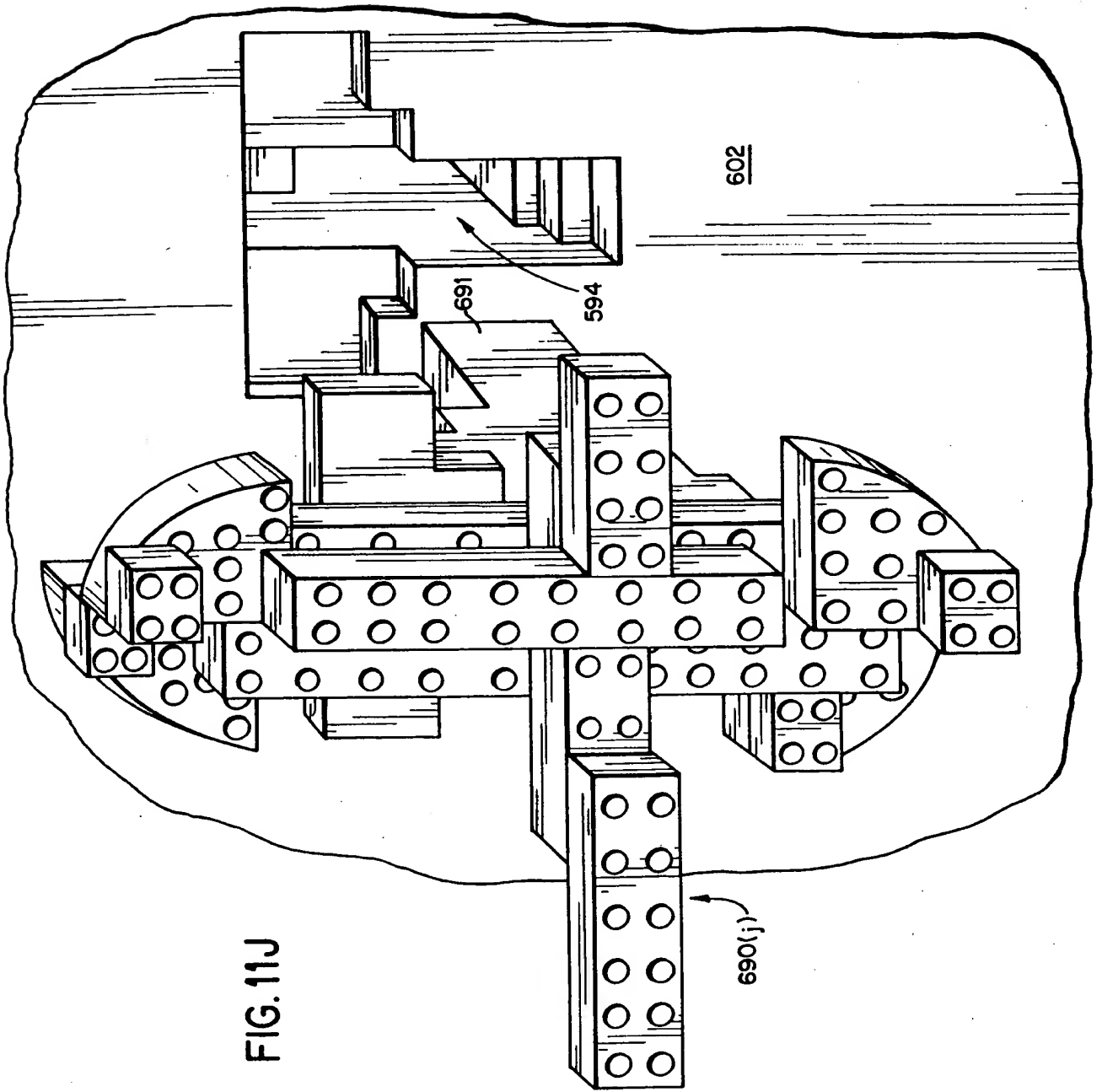
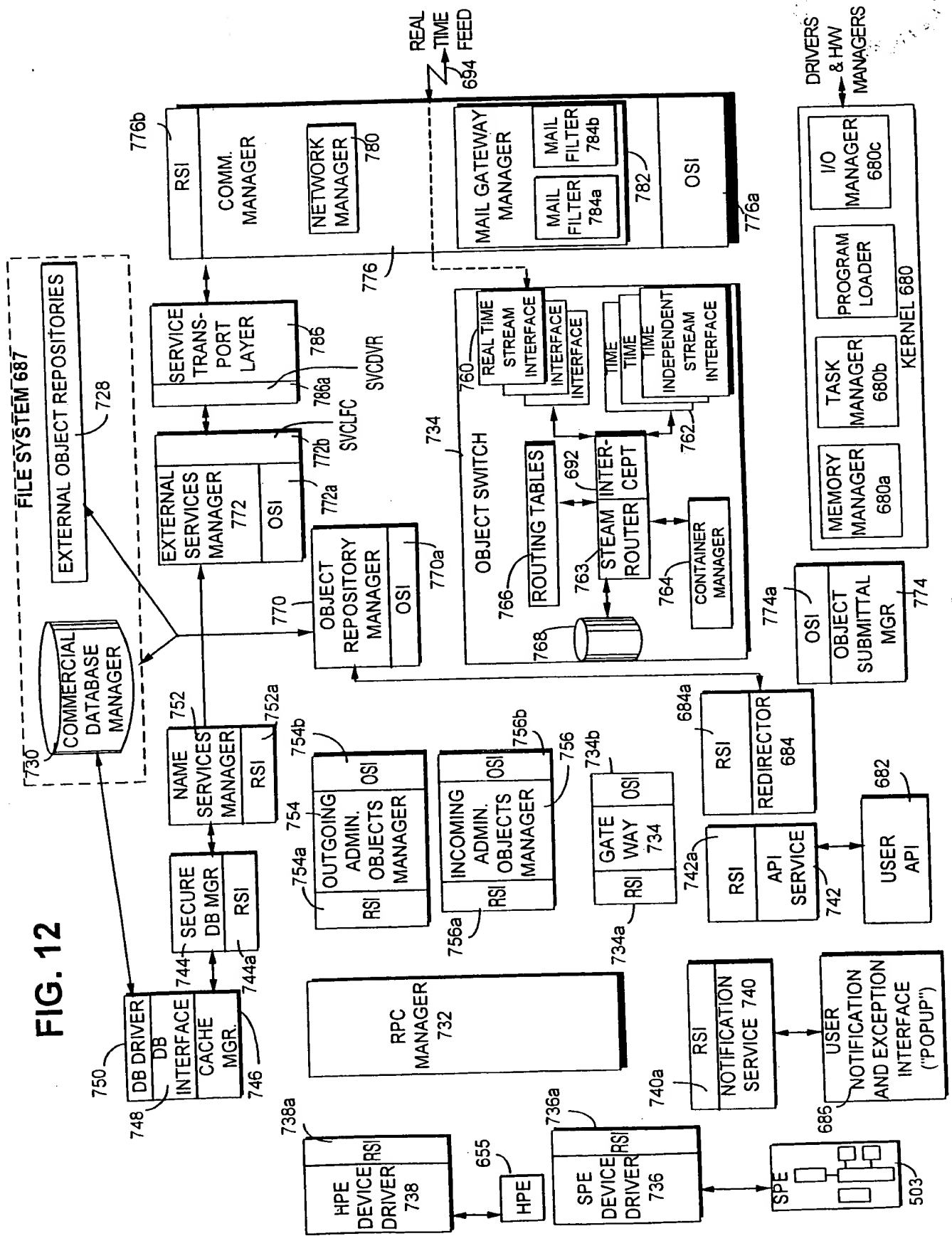


FIG. 11J

FIG. 12



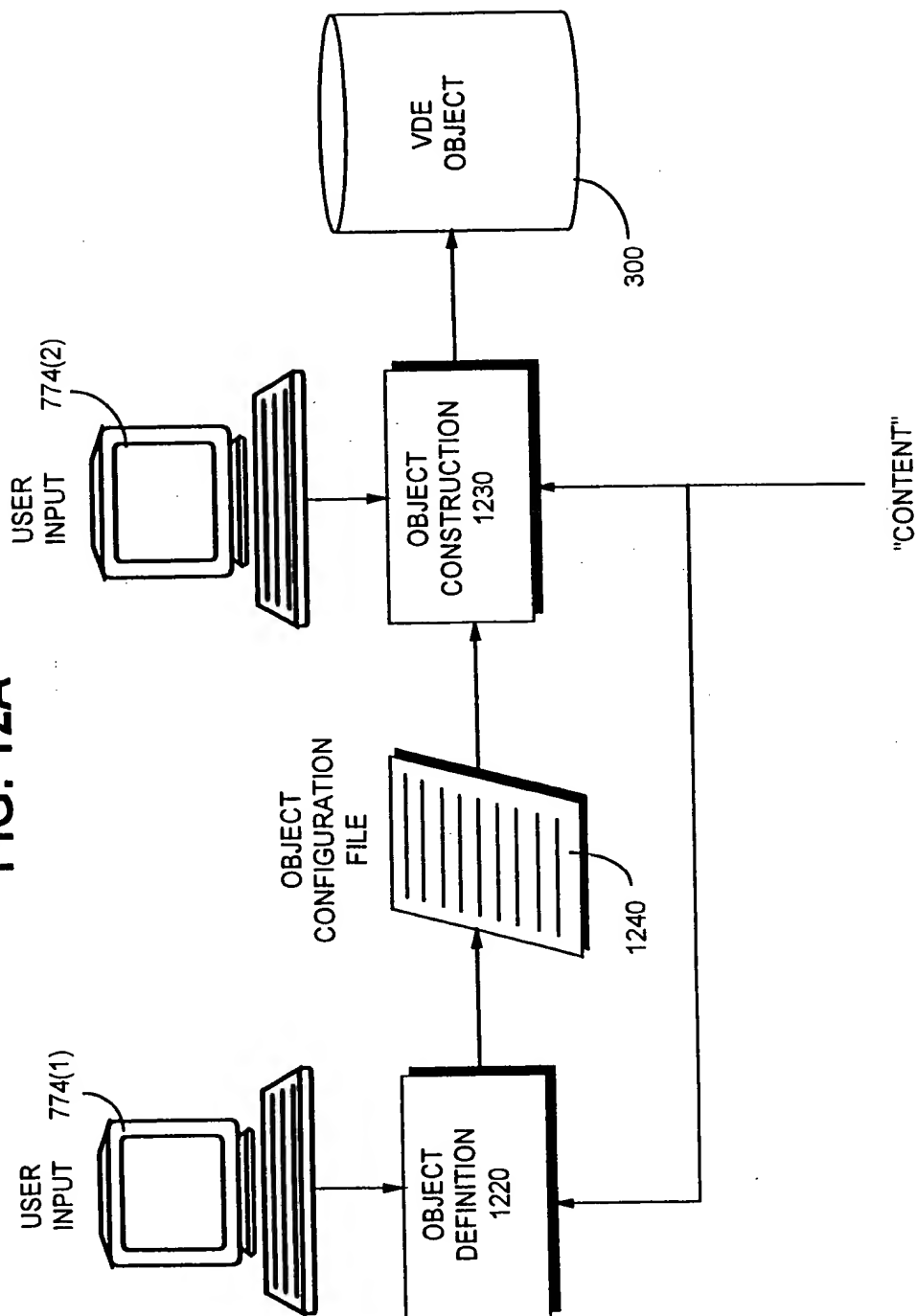


FIG. 13

503, 655

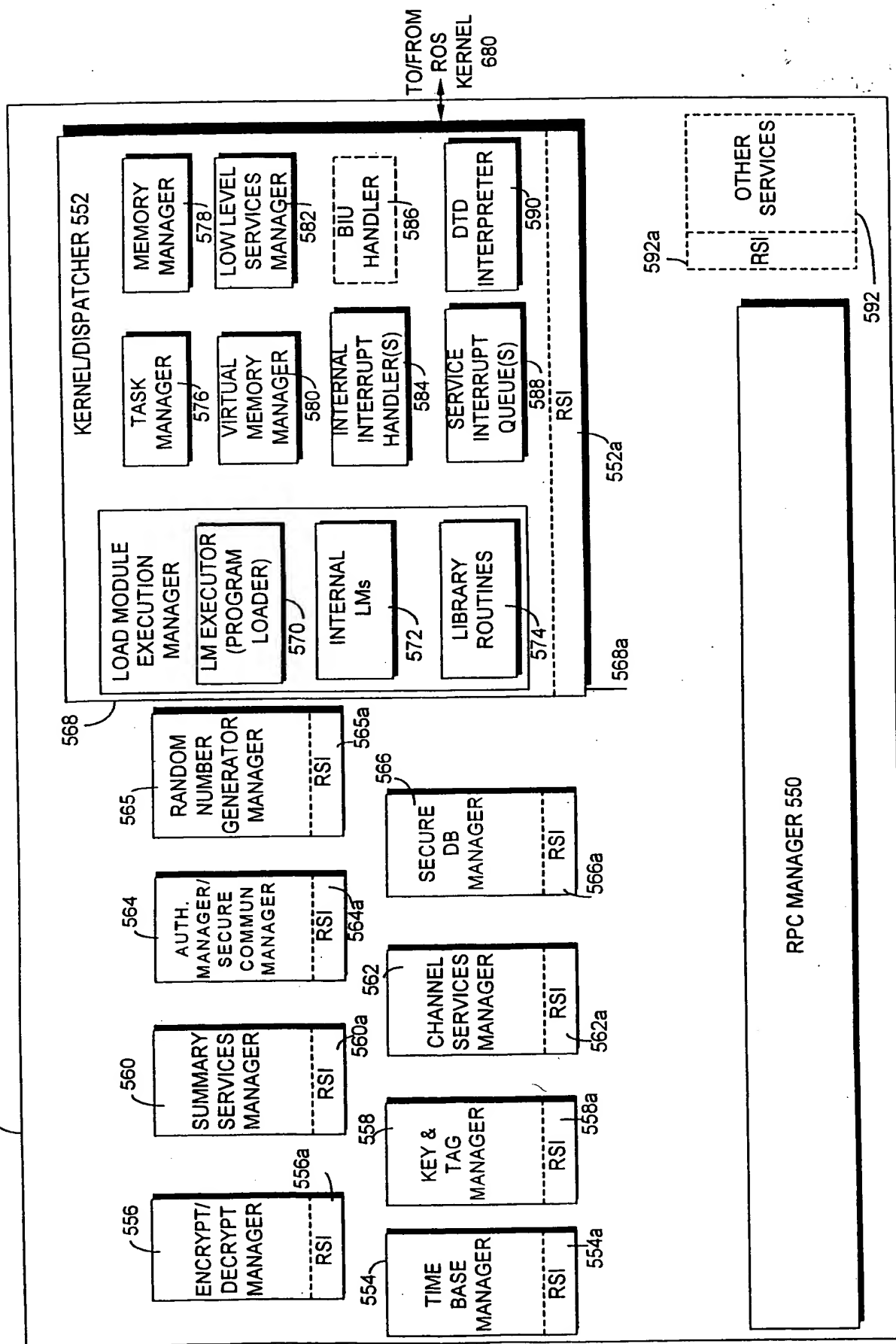


FIG. 14A

DEVICE FIRM WIRE LOW LEVEL SERVICES 582
INITIALIZATION
POST
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION
RECOVERY
EEPROM/FLASH MEMORY MANAGER
KERNEL/DISPATCHER 552
INITIALIZATION
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)
BIU HANDLER 586
MEMORY MANAGER 578
INITIALIZATION (SETTING MMU TABLES)
ALLOCATE
DEALLOCATE
VIRTUAL MEMORY MANAGER 580
SWAP BLOCK PAGING
EXTERNAL MODULE PAGING
MEMORY COMPRESS
RPC AND TABLES 550
INITIALIZATION
MESSAGING CODE /SERVICES MANAGER
SEND/RECEIVE
STATUS
RPC DISPATCH TABLE
RPC SERVICE TABLE

•
•
•

TIME BASE MANAGER 554
ENCRYPTION/DECRYPTION MANAGER 556
PK
BULK
KEY AND TAG MANAGER 558
KEY STORAGE IN EEPROM
KEY LOCATOR
KEY GENERATOR
CONVOLUTION ALGORITHM
SUMMARY SERVICES MANAGER 560
EVENT SUMMARIES
BUDGET SUMMARIES
DISTRIBUTER SUMMARY SERVICES
CHANNEL SERVICES MANAGER 562
CHANNEL HEADERS
CHANNEL DETAILS
LOAD MODULE EXECUTION SERVICES 568
AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564
DATABASE MANAGER 566
MANAGEMENT FILE SUPPORT
TRANSACTION AND SEQUENCE NUMBER SUPPORT
SRN/ HASH
DTD INTERPRETER 590
LIBRARY ROUTINES 574
I/O CALLS (STRING SEARCH ETC.)
MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES
TAG CHECKING, MD5, CRC'S
INTERNAL LM'S 572 FOR BASIC METHODS
METER LOAD MODULE(S)
BILLING LOAD MODULE(S)
BUDGET LOAD MODULE(S)
AUDIT LOAD MODULE(S)
READ OBJECT LOAD MODULE(S)
WRITE OBJECT LOAD MODULE(S)
OPEN OBJECT LOAD MODULE(S)
CLOSE OBJECT LOAD MODULE(S)

•
•
•

FIG. 14B

•
•
•

PUBLIC KEY AND PRIVATE KEY, SYSTEM ID, AUTHENTICATION CERTIFICATE,VDE SYSTEM PUBLIC KEY, PRIVATE DES KEY
TOP LEVEL KEYS FOR OBJECTS
TOP LEVEL BUDGET INFO
METER SUMMATION VALUES
KEY RECORDS FOR BUDGET RECORDS, AUDIT RECORDS, STATIC MANAGEMENT RECORDS, UPDATED MANAGEMENT RECORDS, ETC.
• • •
DEVICE DATA TABLE
SITE ID
TIME
ALARMS
TRANSACTION/SEQUENCE #'S
MISCELLANEOUS
MEMORY MAP
MAP METERS
LM/UDT TABLE
TASK MANAGER 576
CHANNEL(S)
SUMMARY SERVICES 560
SECURE DATABASE TAGS
SRN ENTRIES
HASH ENTRIES

•
•
•

FIG. 14C

STACK	
•	
CHANNEL SWAP BLOCK	CHANNEL LM
	CHANNEL HEADER & D1
CONTROL SWAP BLOCK	CONTROL LM
	CONTROL D1
	COMMIT LM
	COMMIT D1, D2, D3
EVENT SWAP BLOCK	EVENT LM
	MAP TABLE (SINGLE) D1
METER SWAP BLOCK	METER LM
	METER UDE DELTA, DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA, DELTA'
BUDGET SWAP BLOCK	METER LM
	METER UDE DELTA, DELTA'
	METER TRAIL LM
	METER TRAIL UDE DELTA, DELTA'
BILLING SWAP BLOCK	BILLING LM
	METER UDE
	BUDGET UDE
	BILLING TABLE UDE
	BILLING TRAIL LM
	BILLING TRAIL UDE DELTA'

•

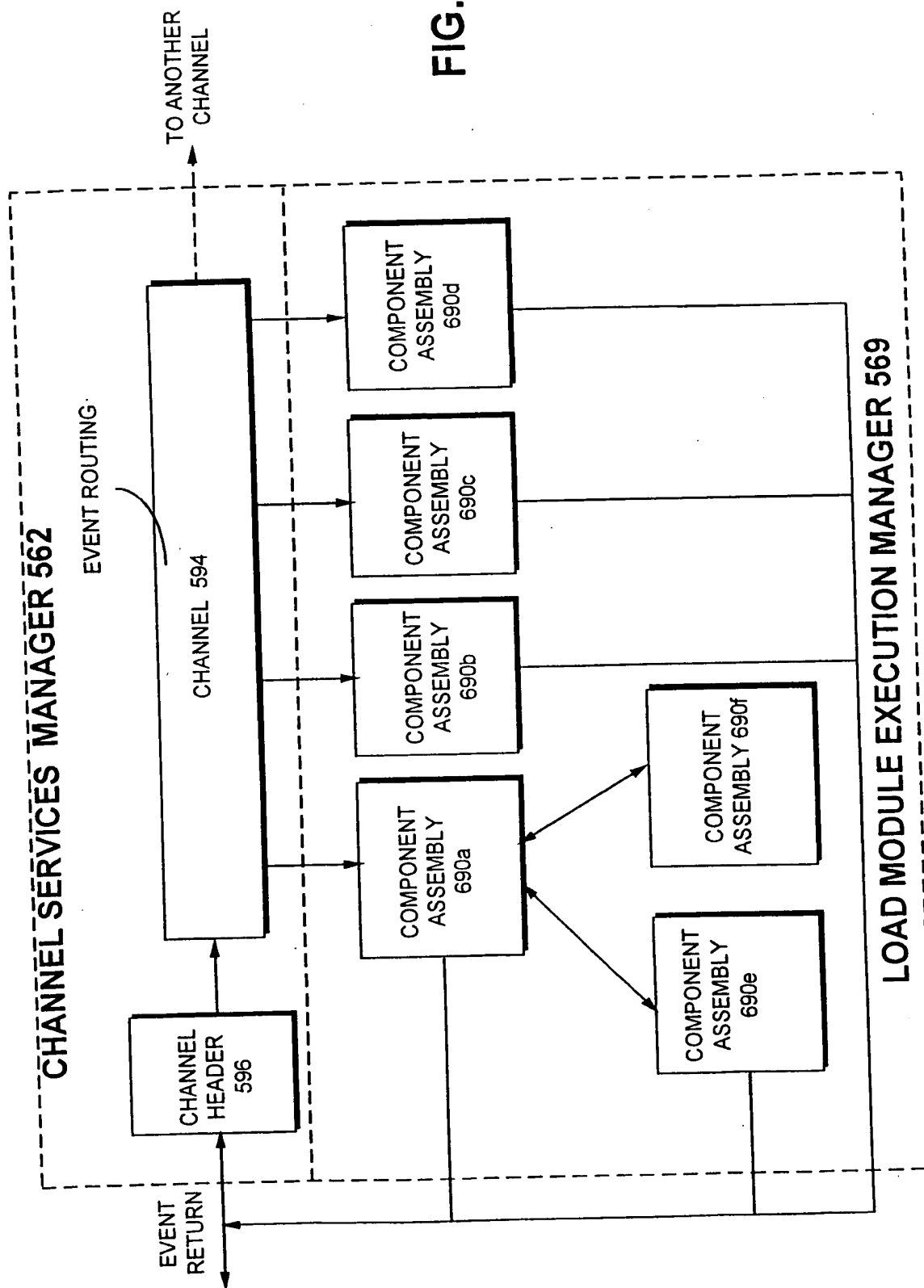


FIG. 15

FIG. 15A

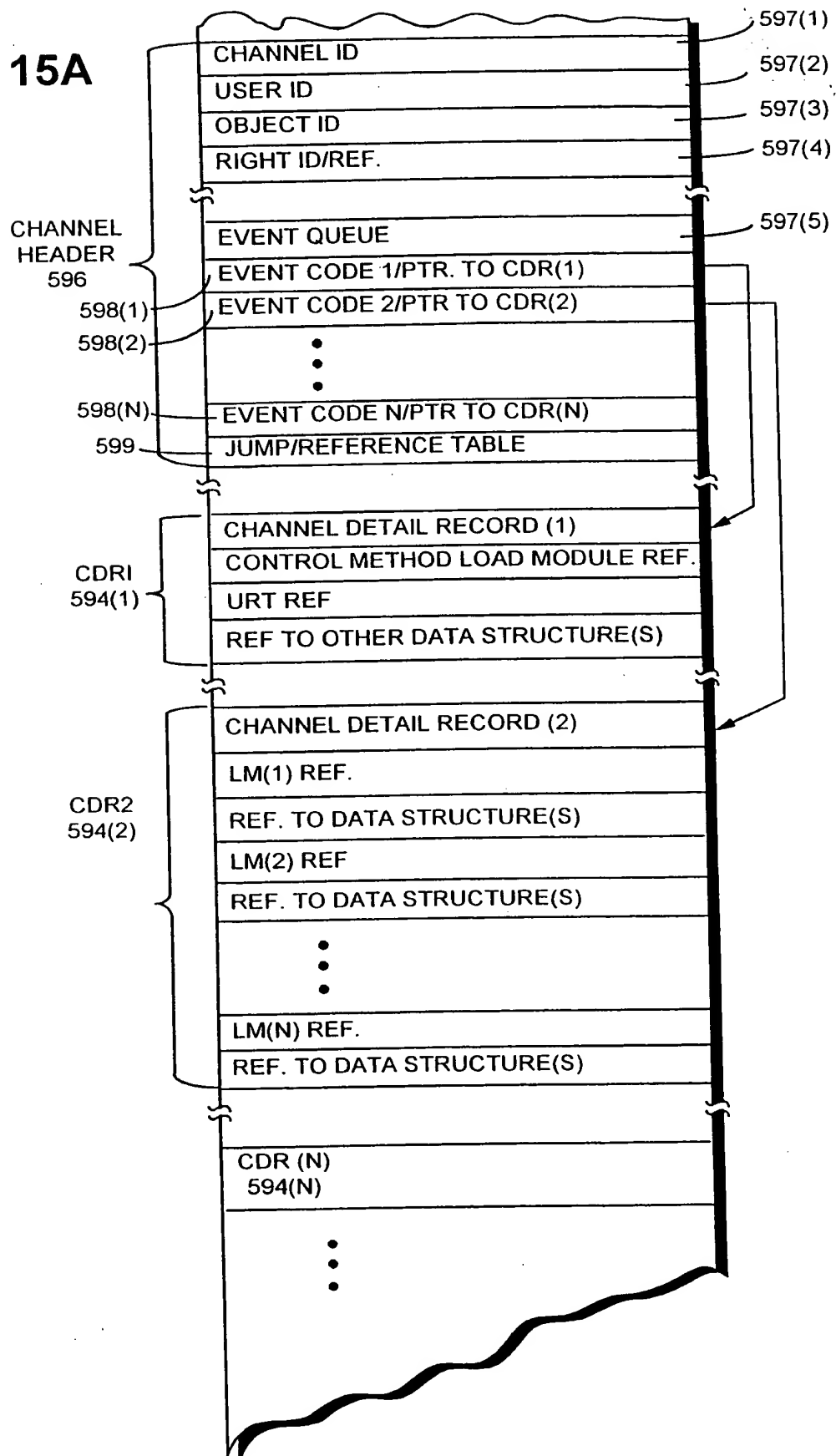


FIG. 15B

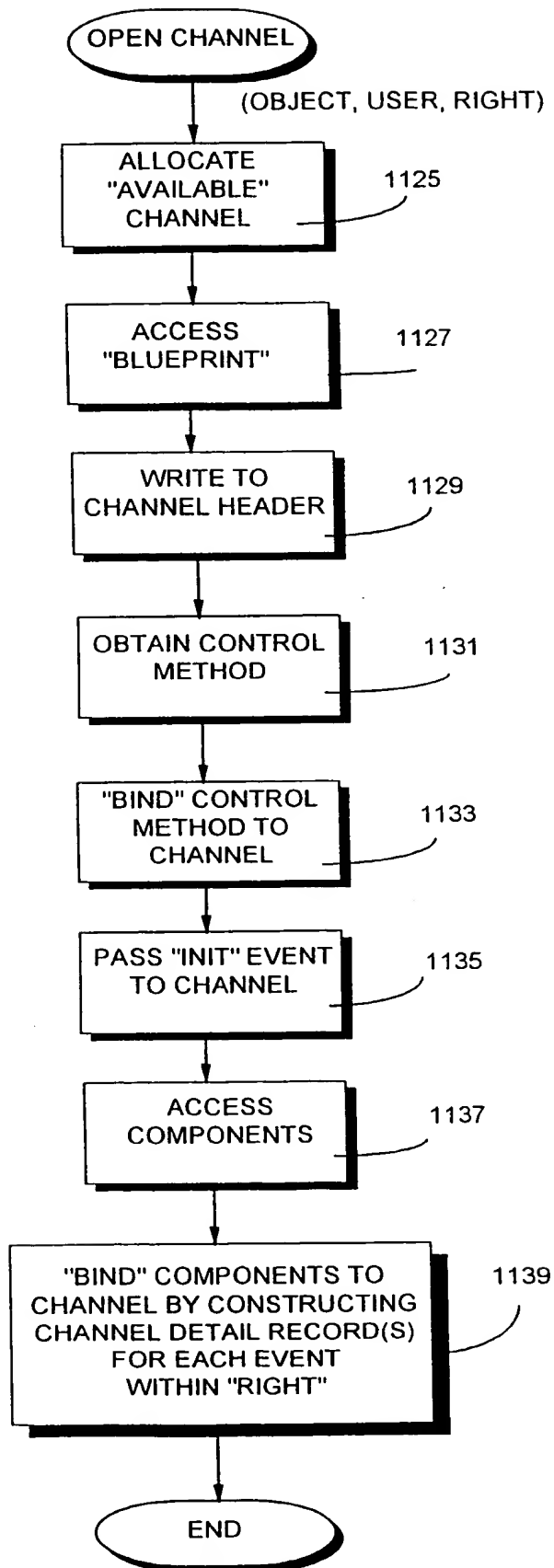
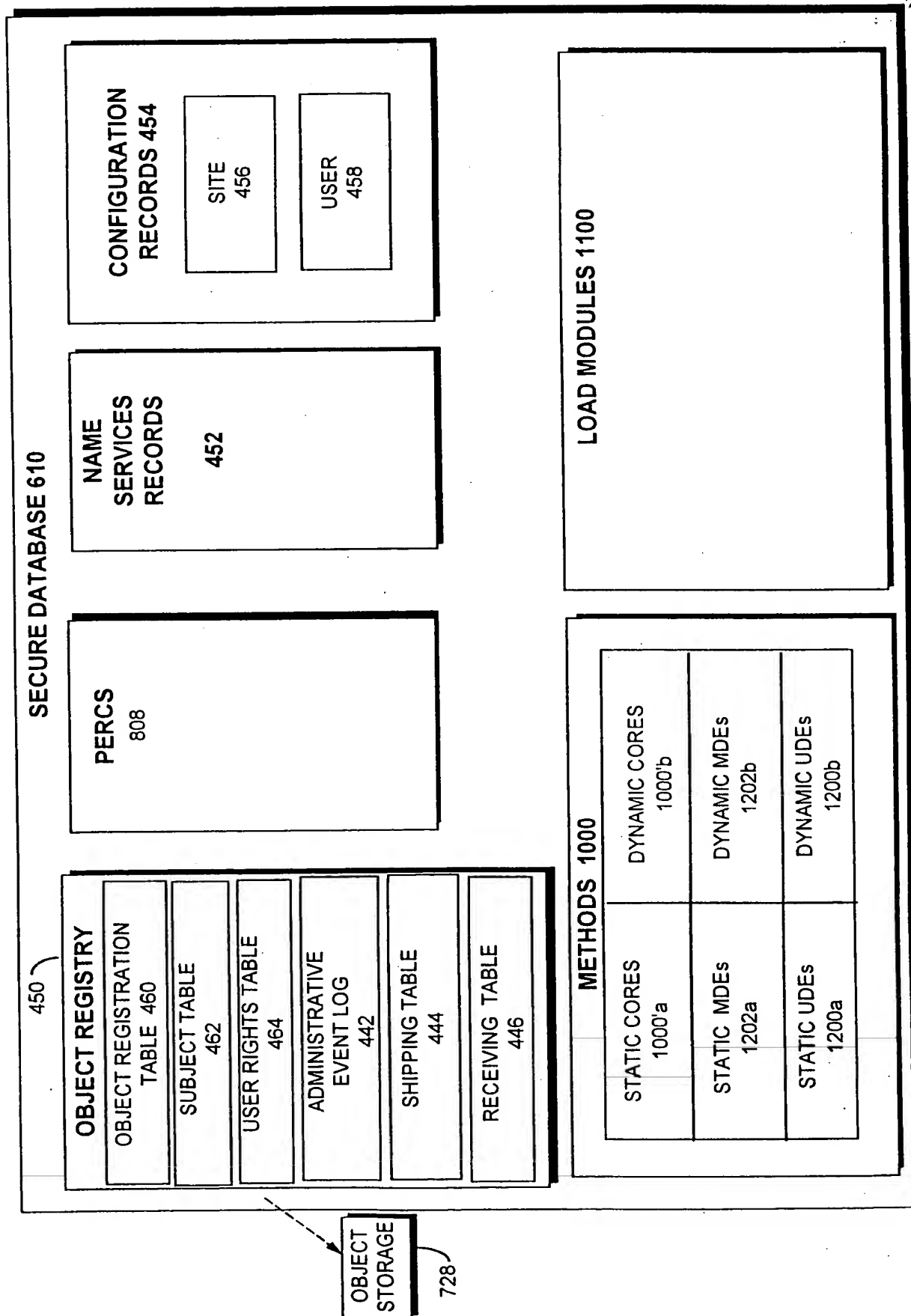


FIG. 16



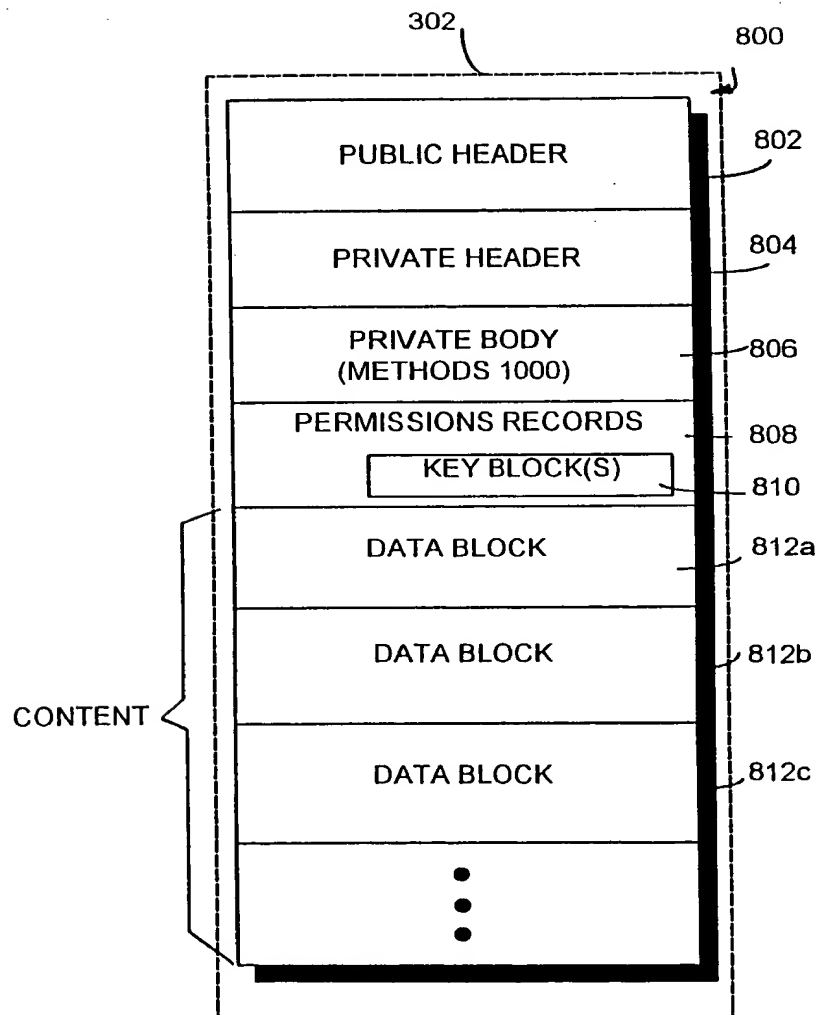


FIG. 17

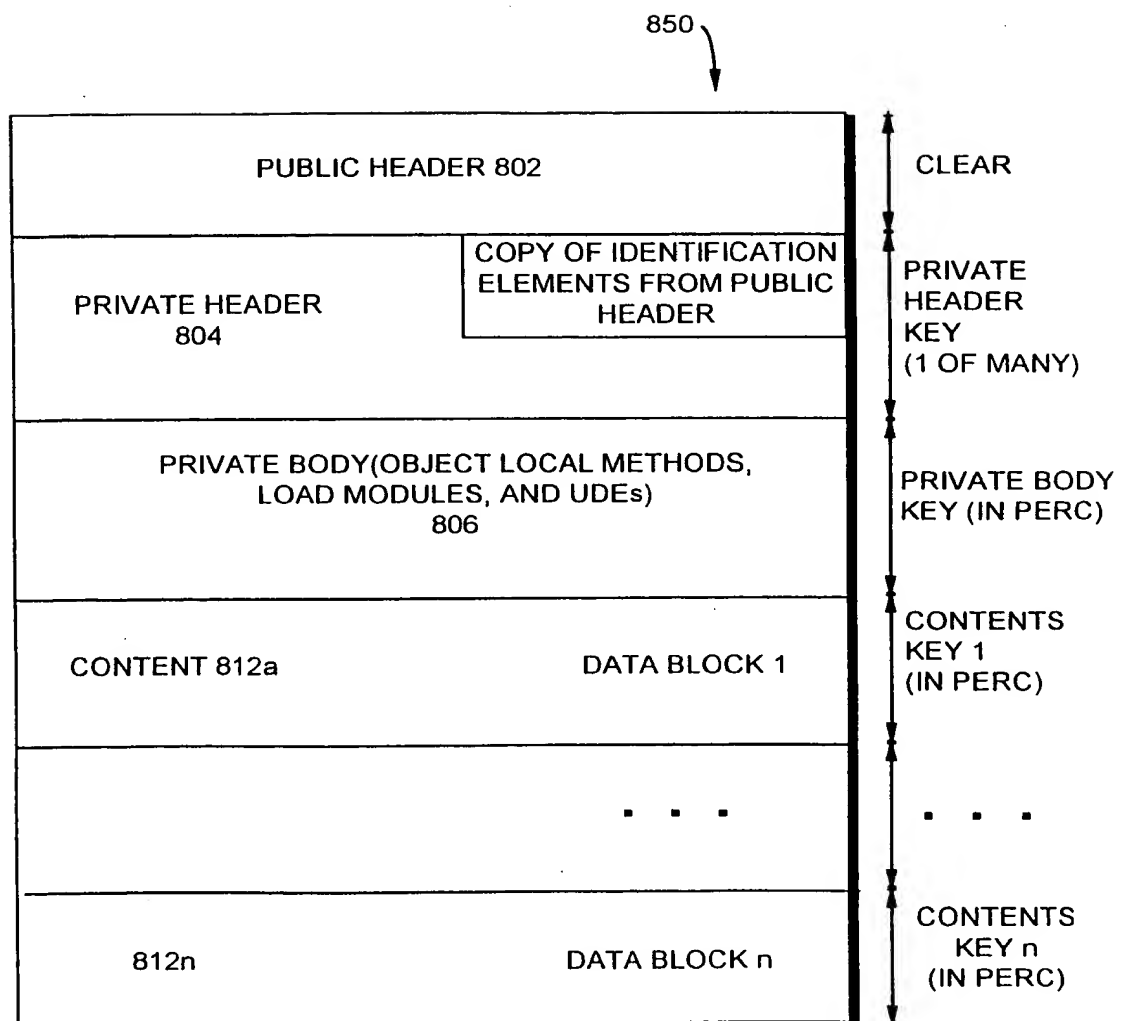


FIG. 18

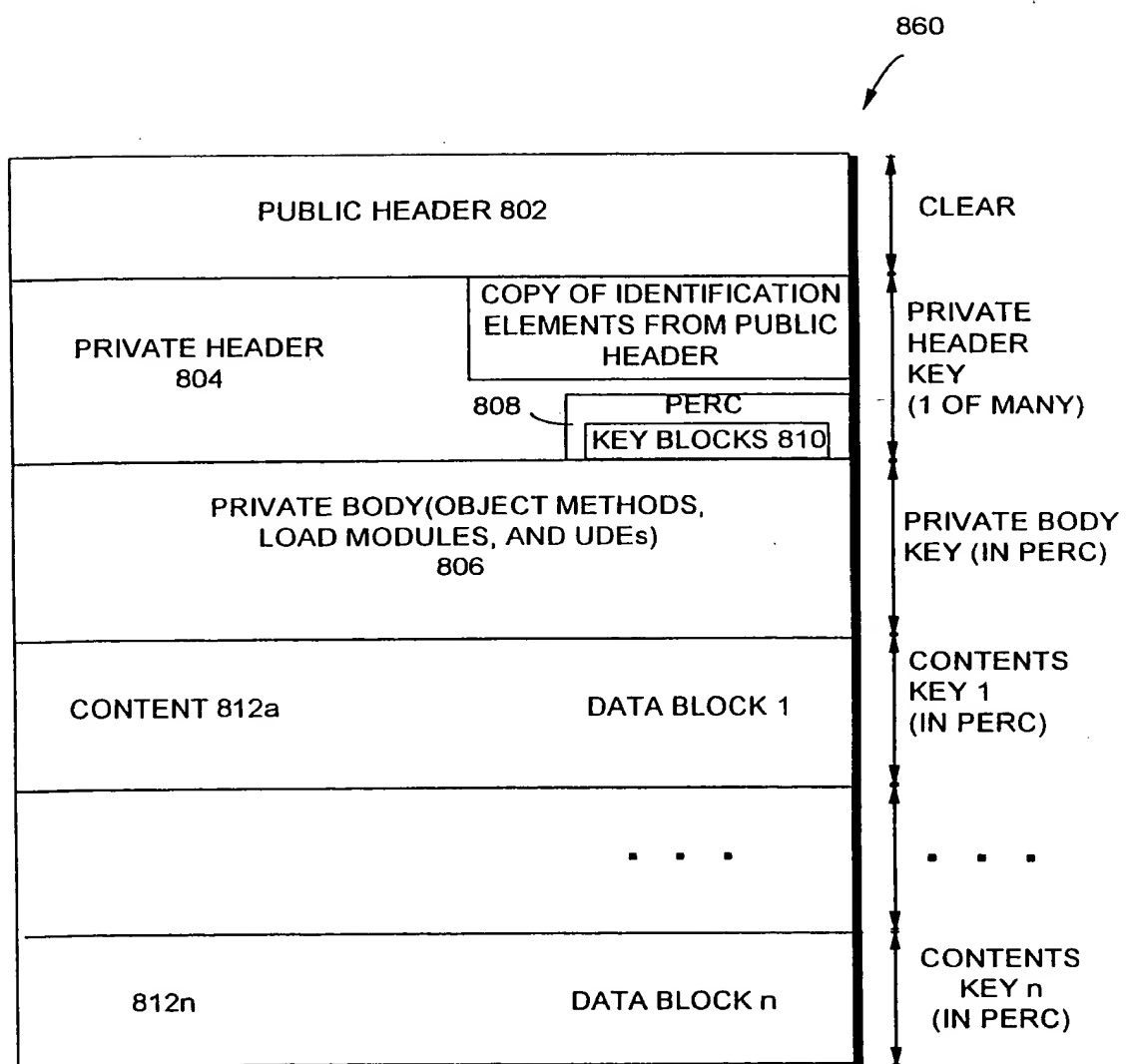


FIG. 19

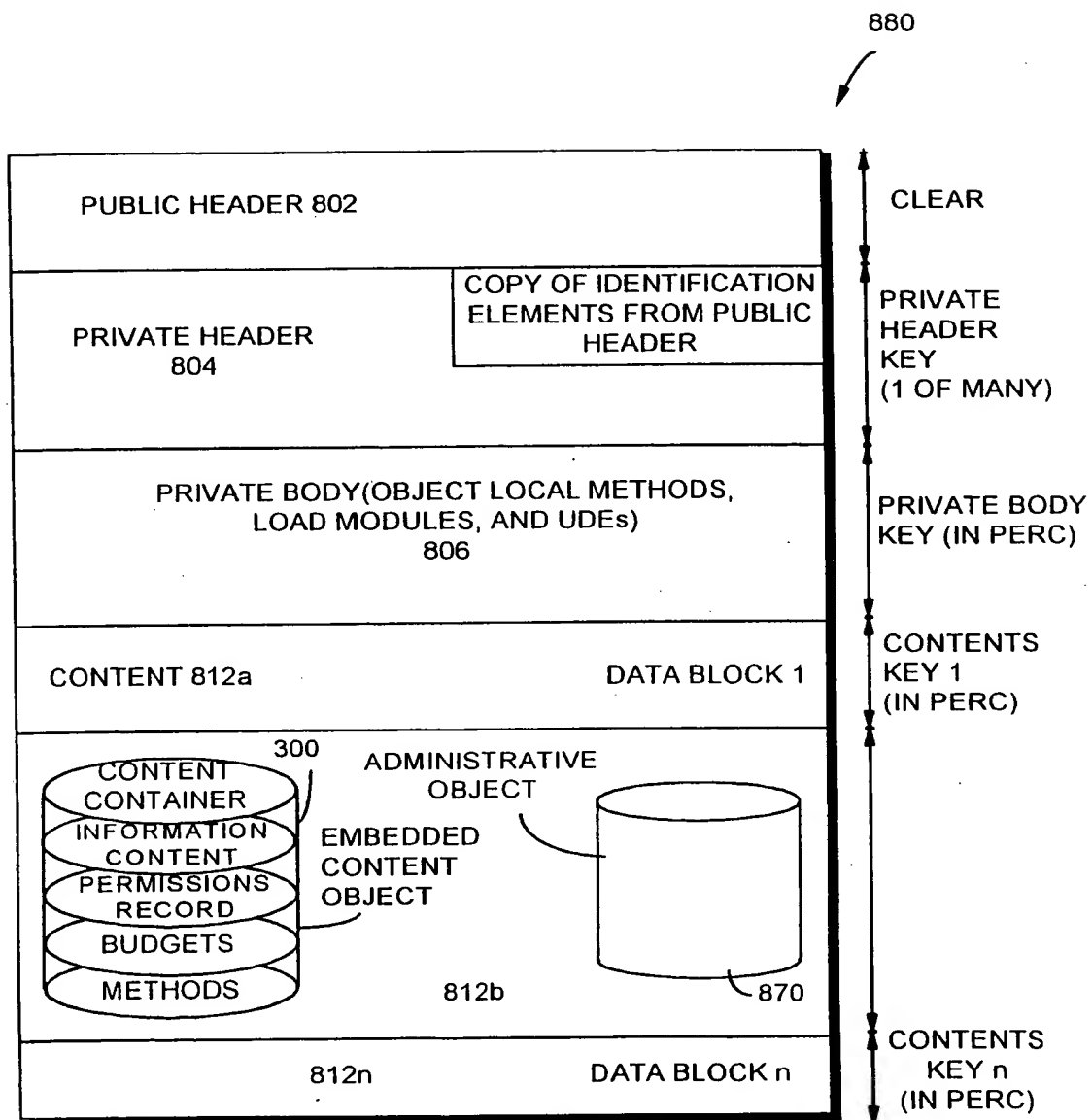


FIG. 20

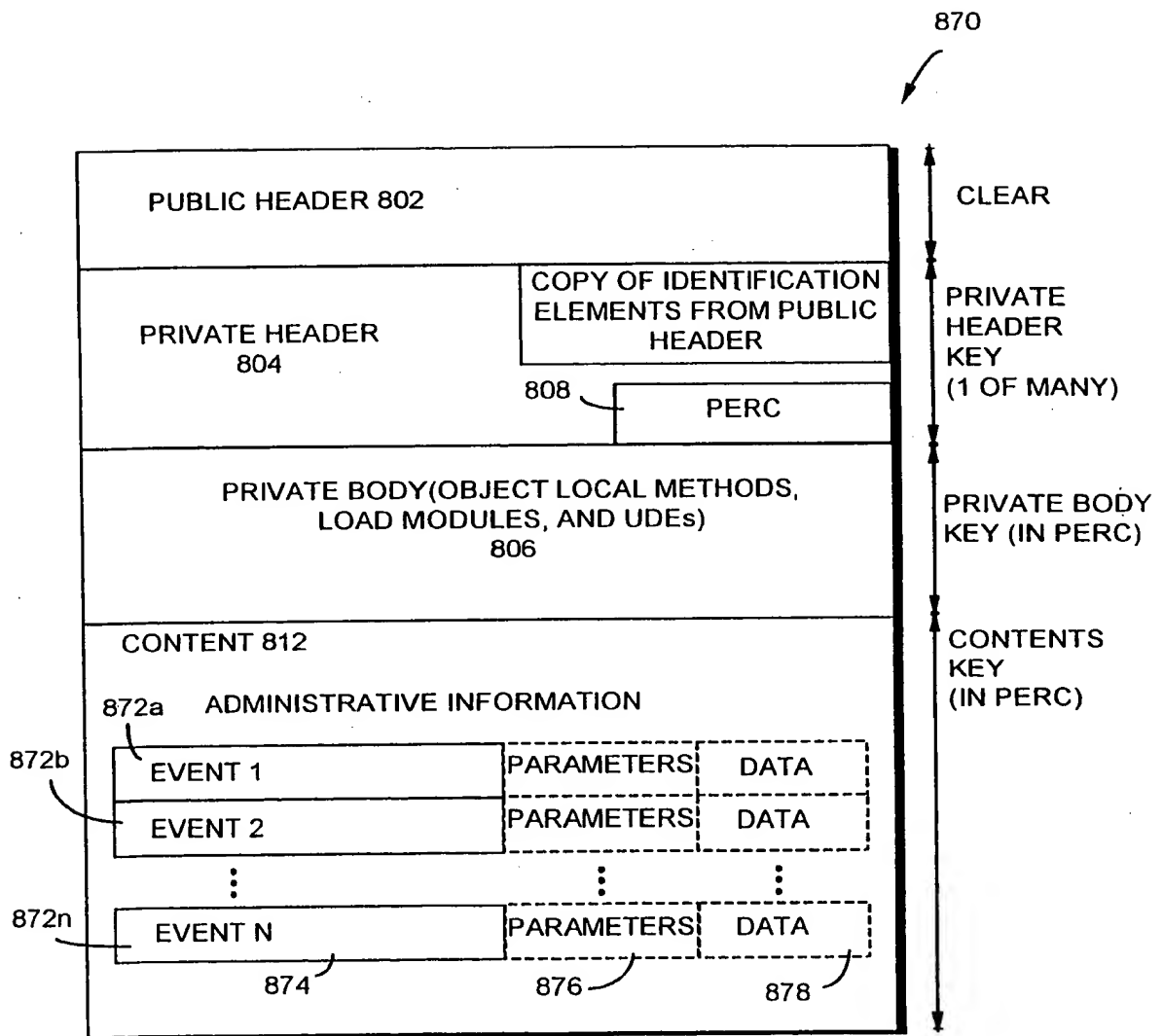


FIG. 21

FIG. 22

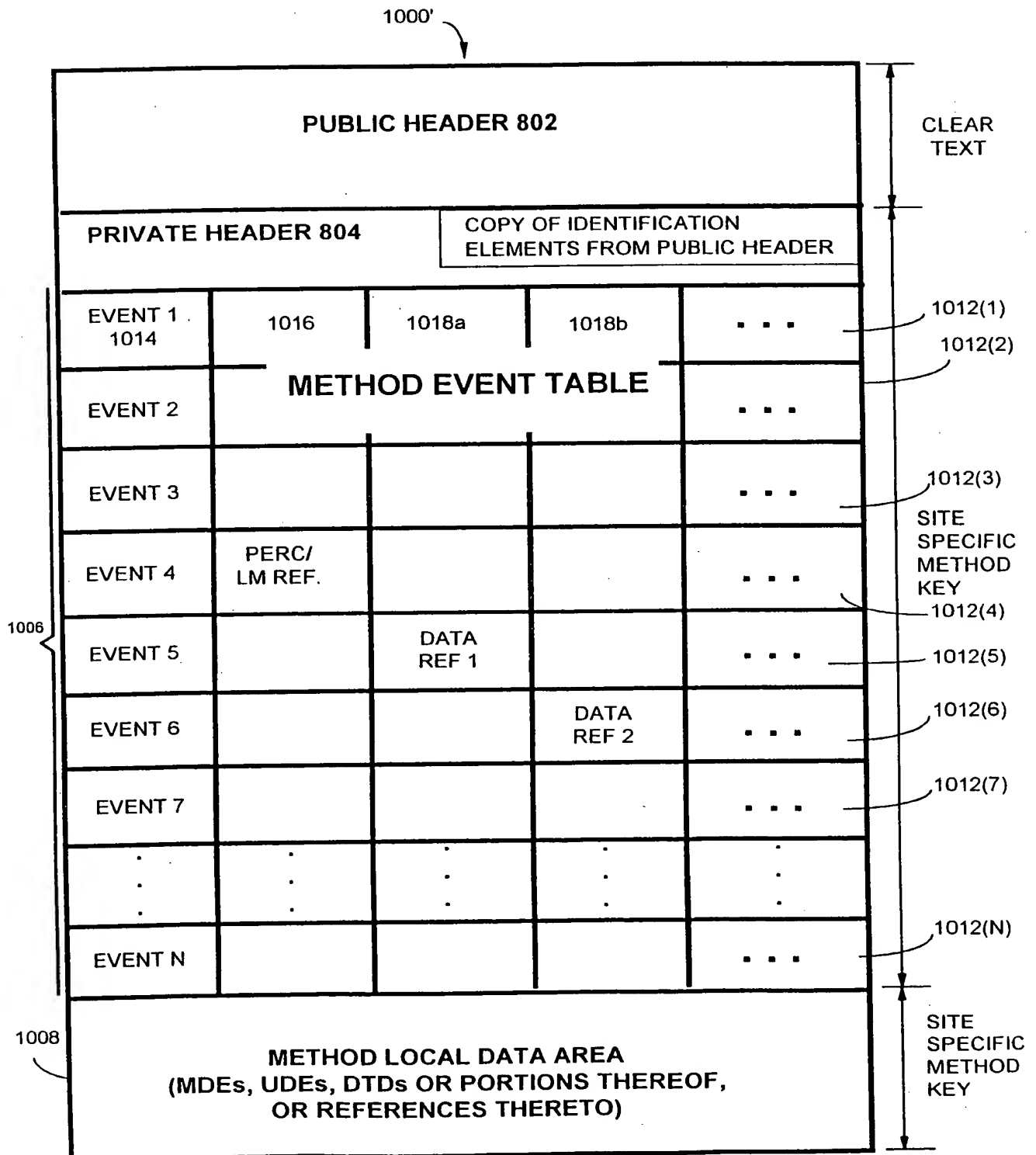


FIG. 23

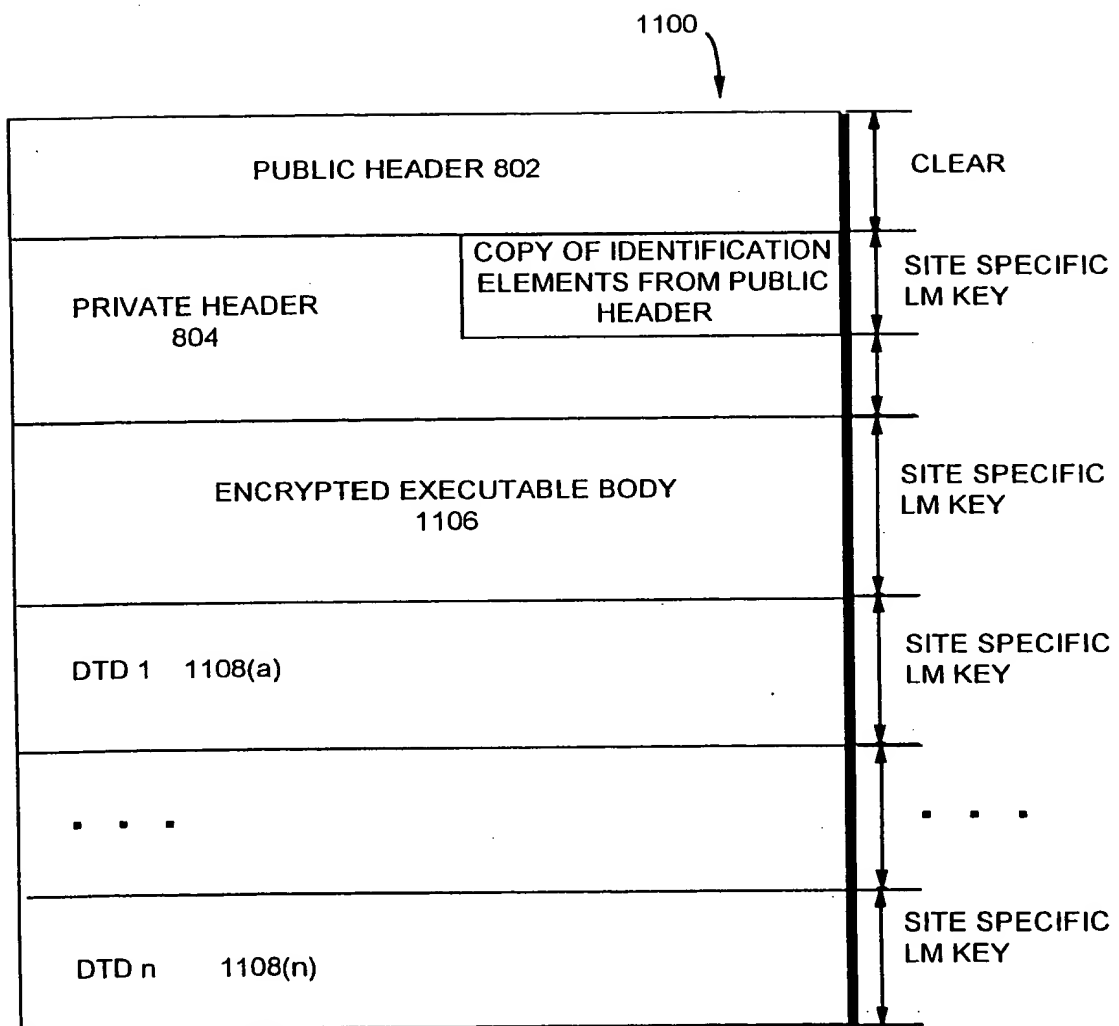


FIG. 24

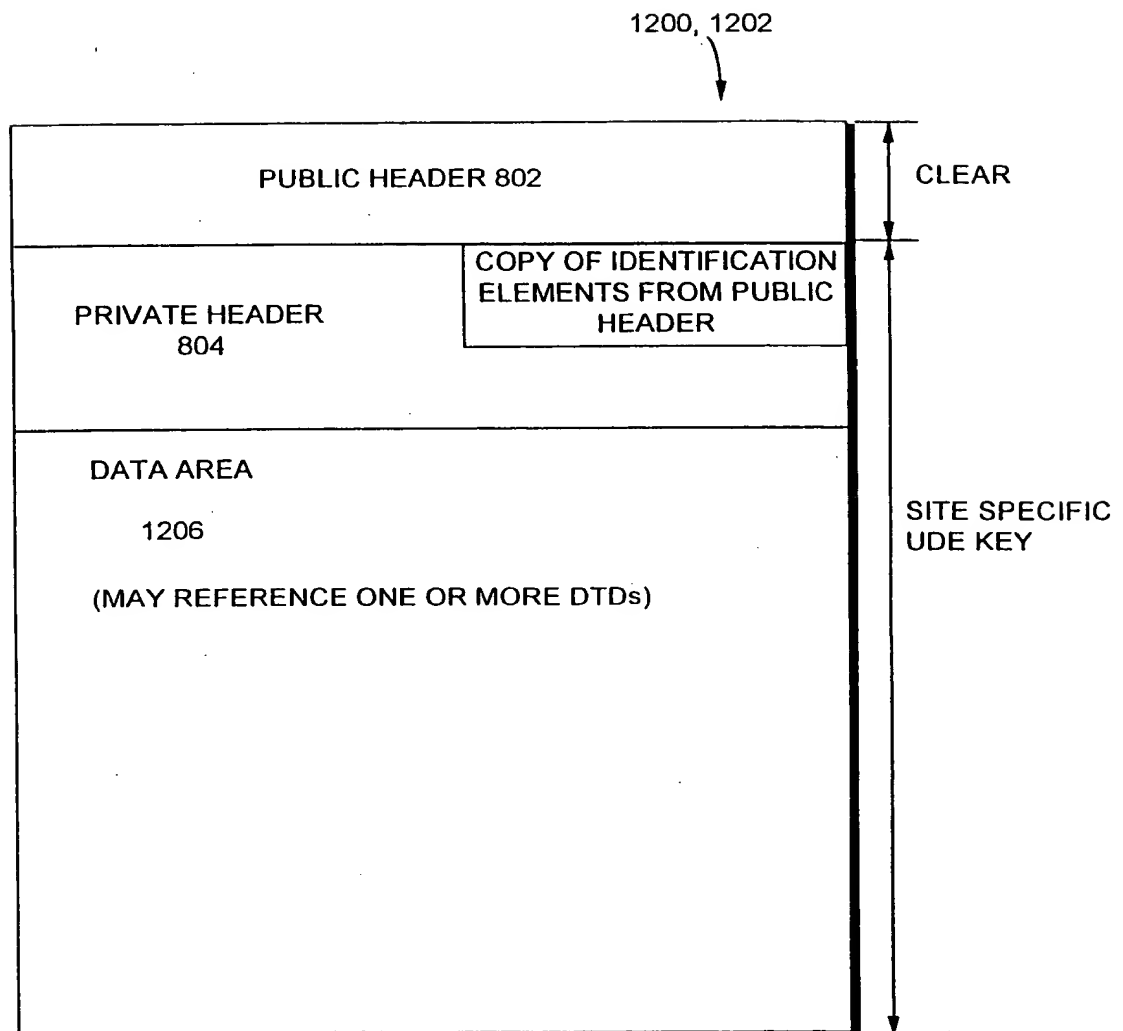


FIG. 25A

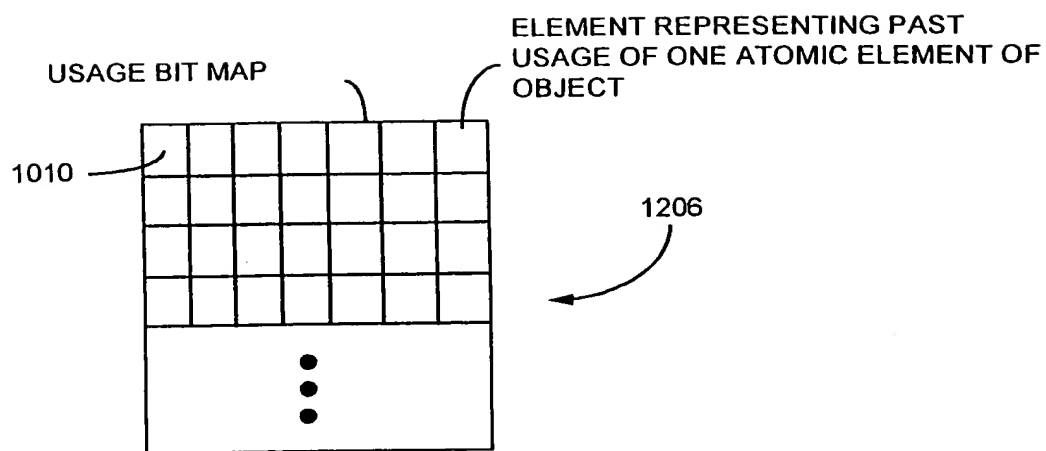


FIG. 25B

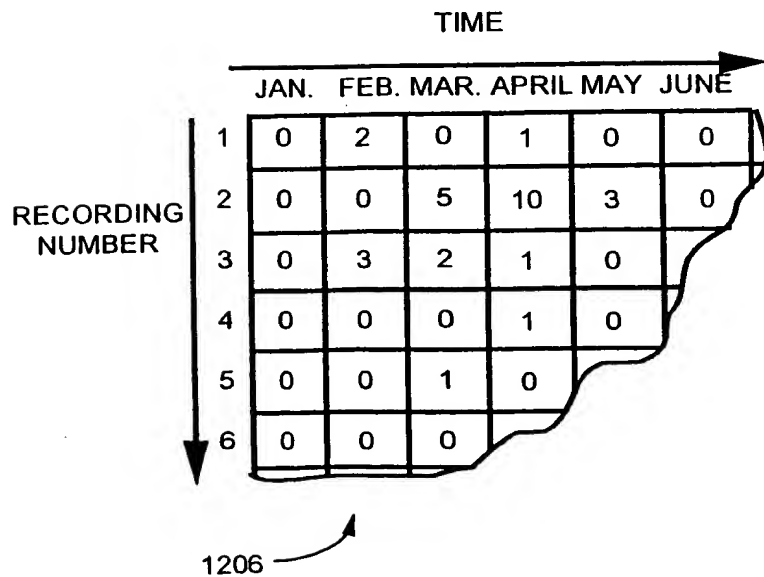


FIG. 25C

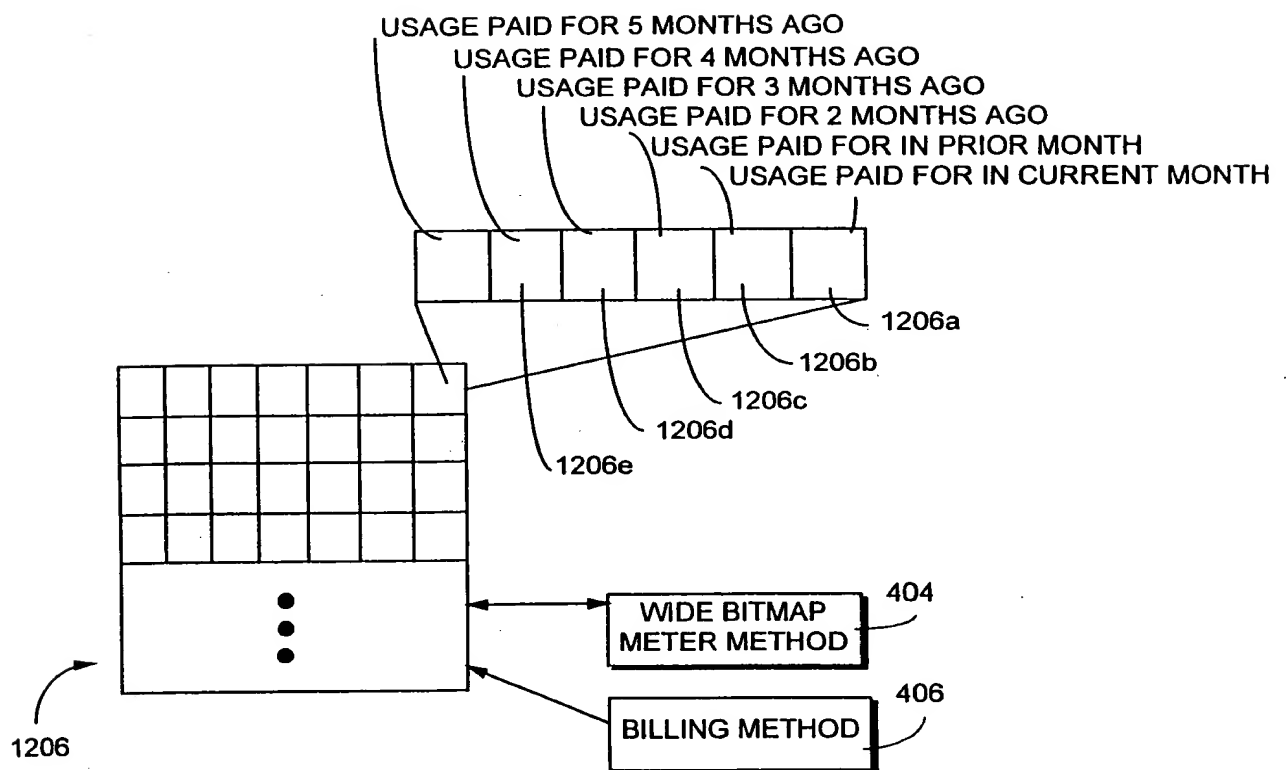


FIG. 26

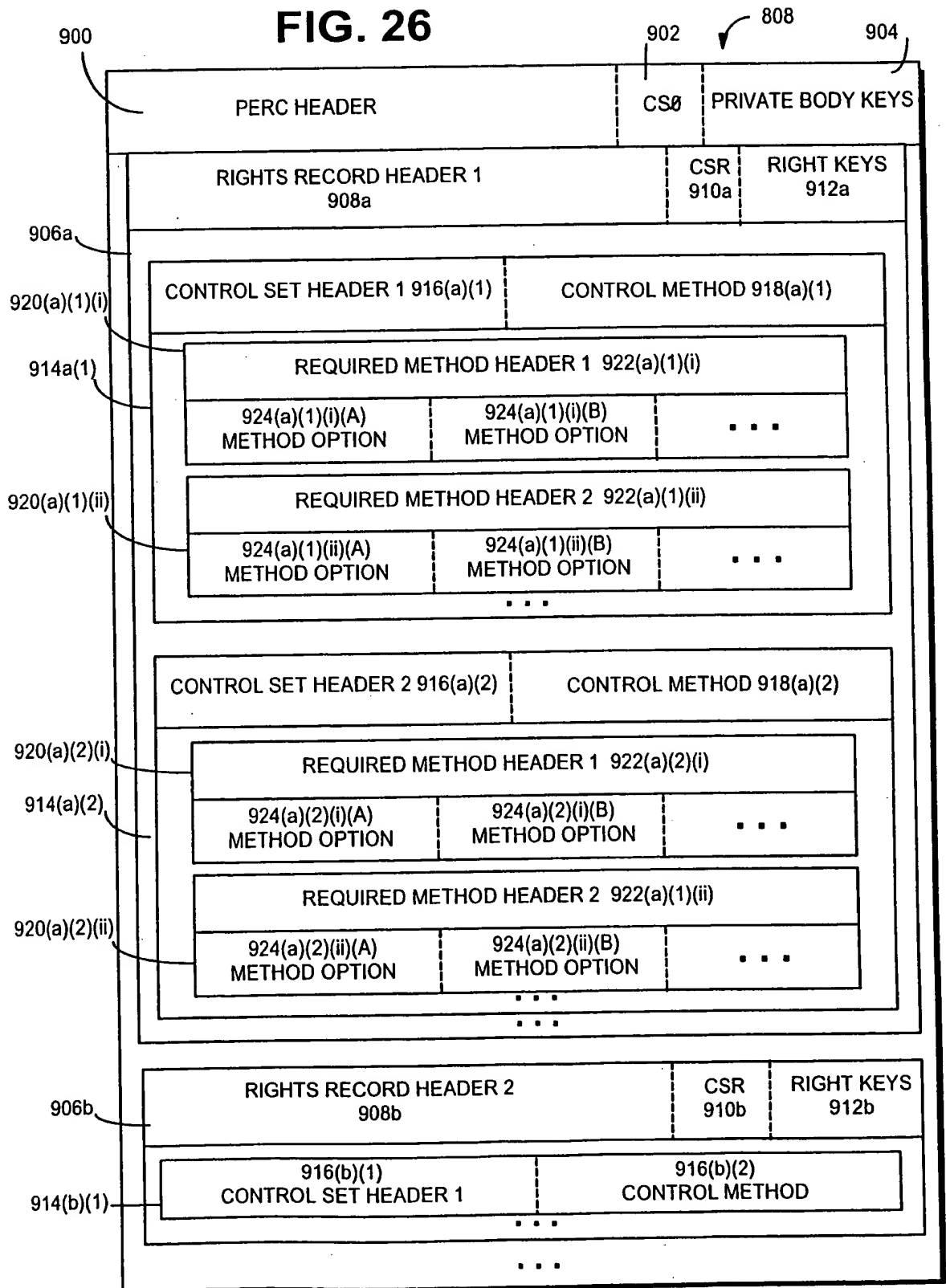


FIG. 26A

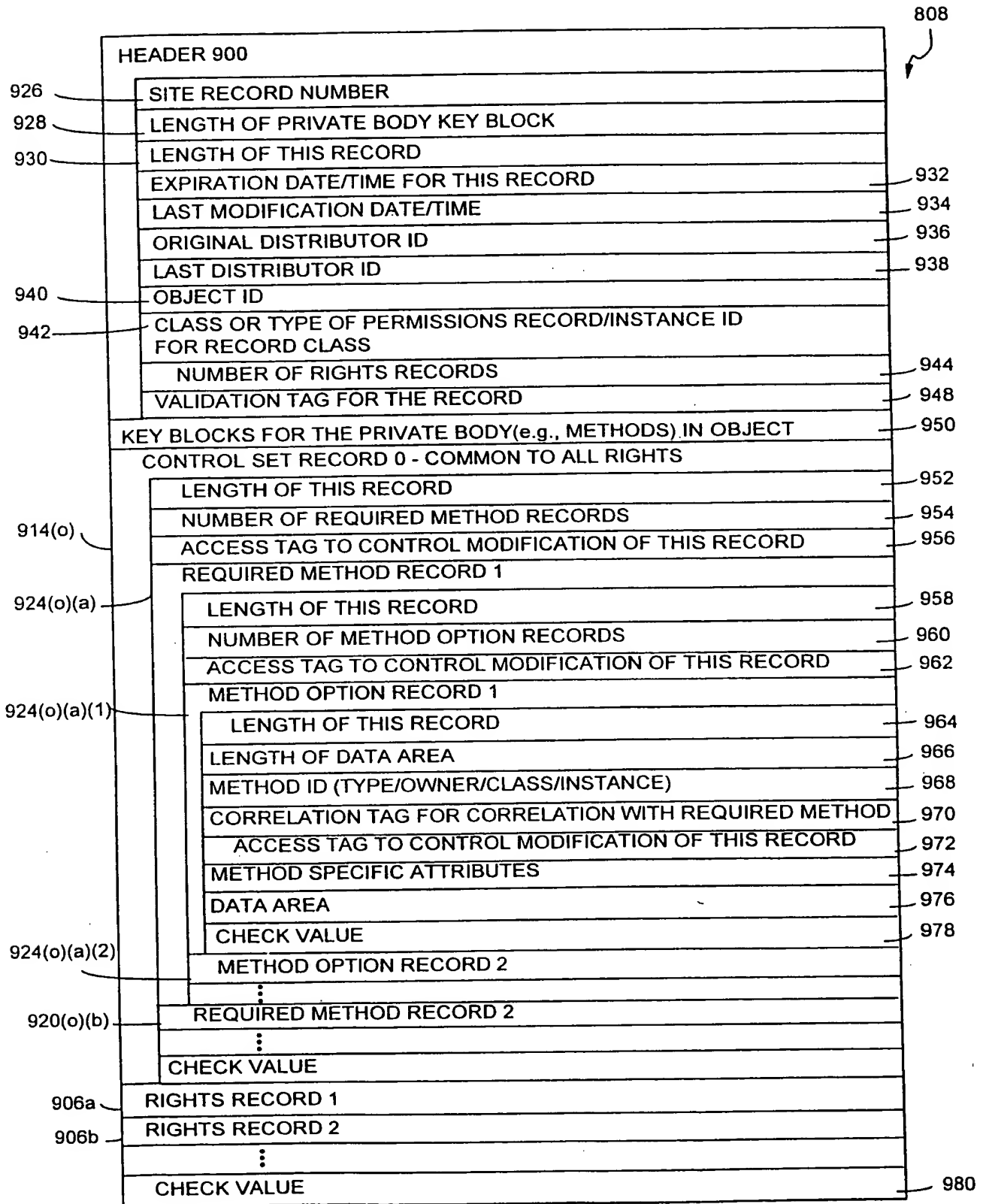


FIG. 26B

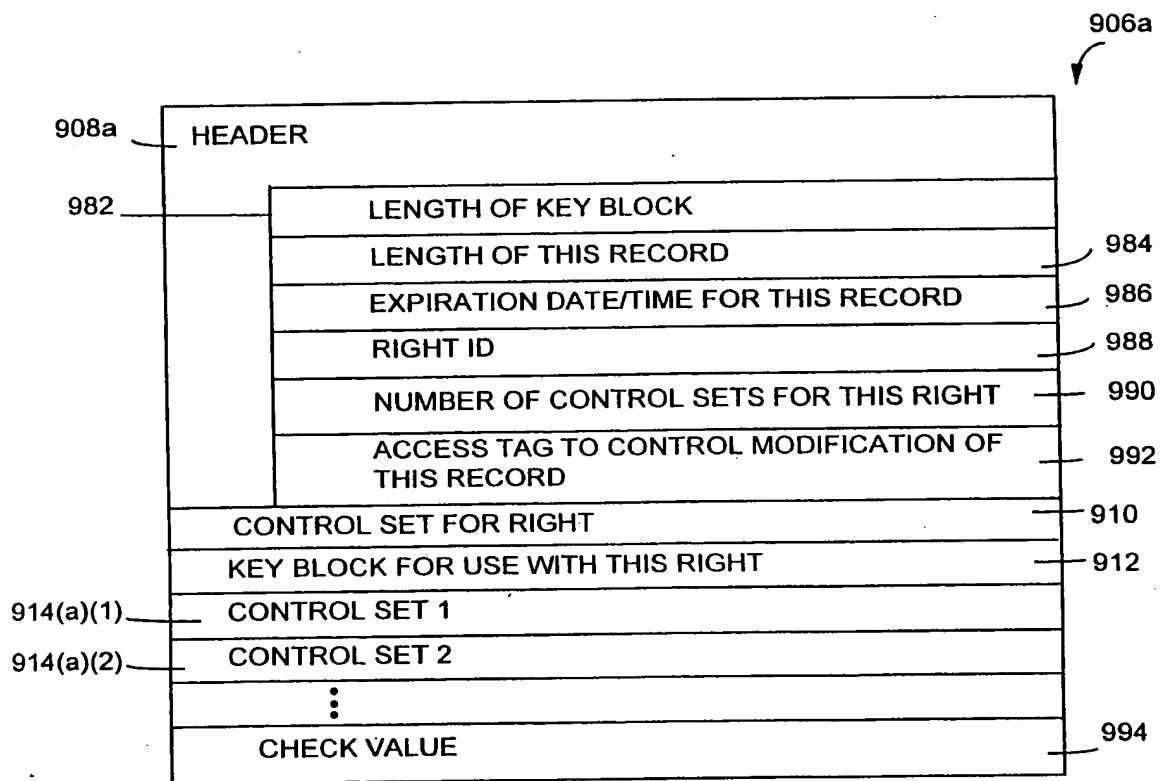


FIG. 27

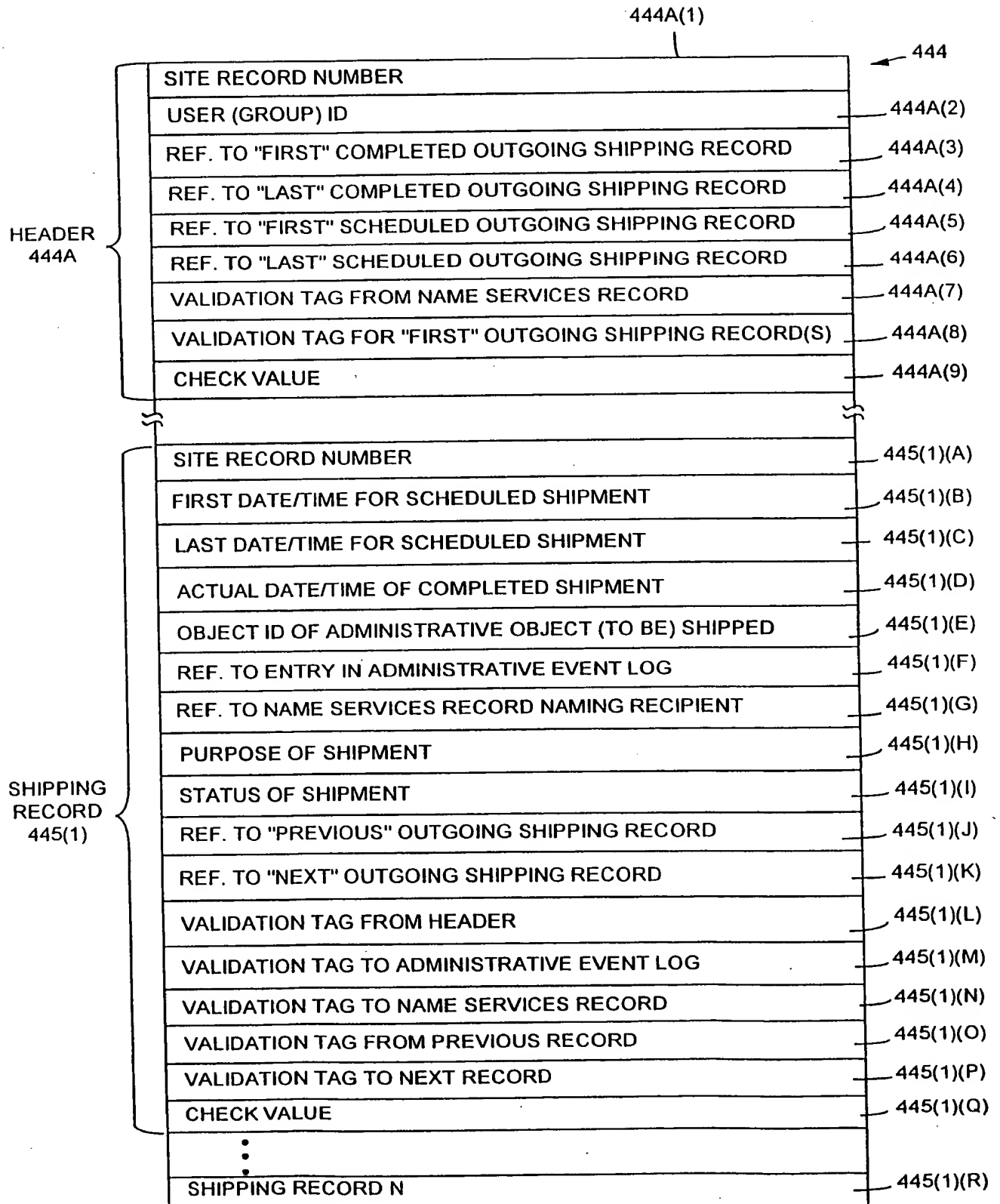


FIG. 28

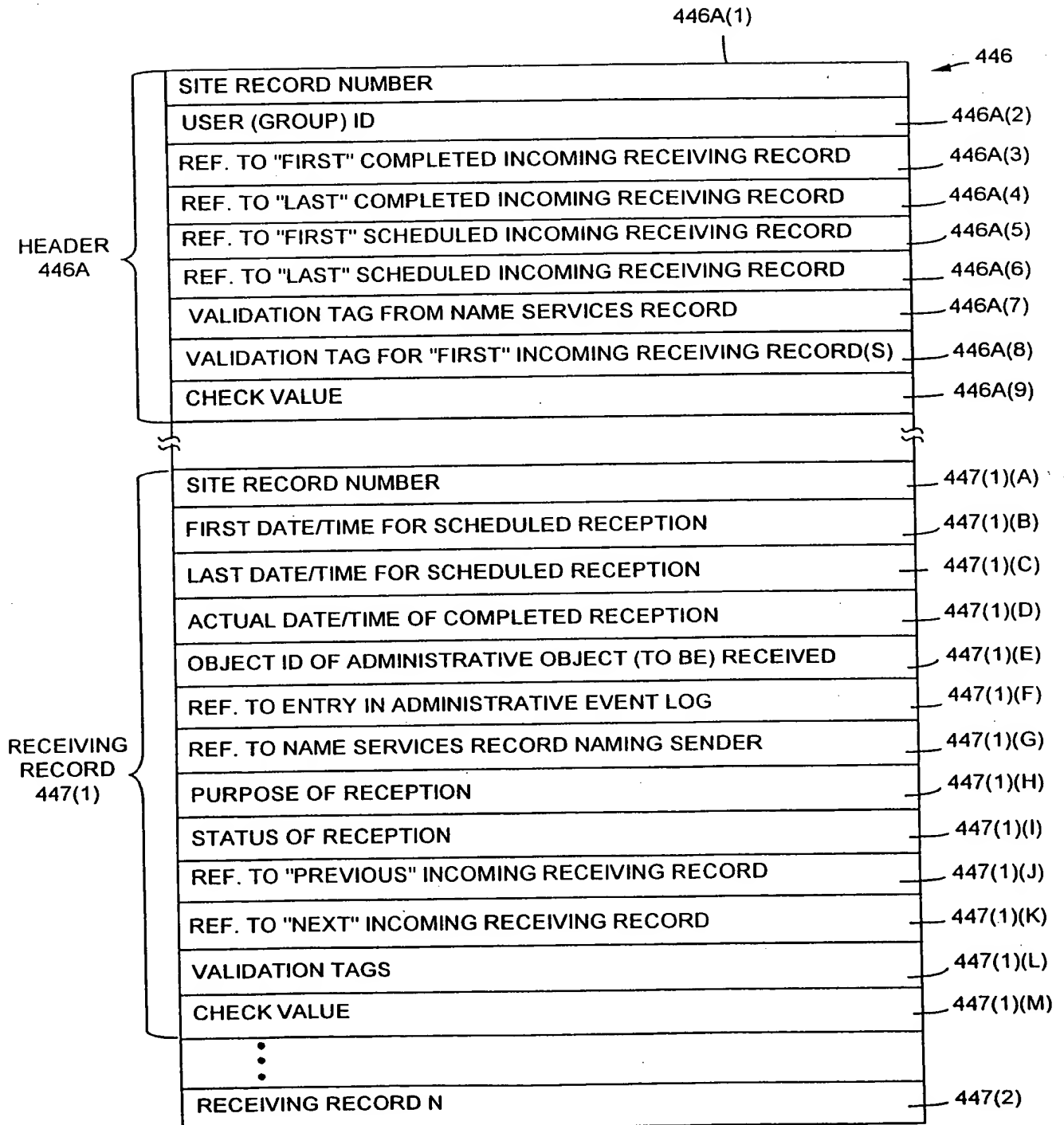


FIG. 29

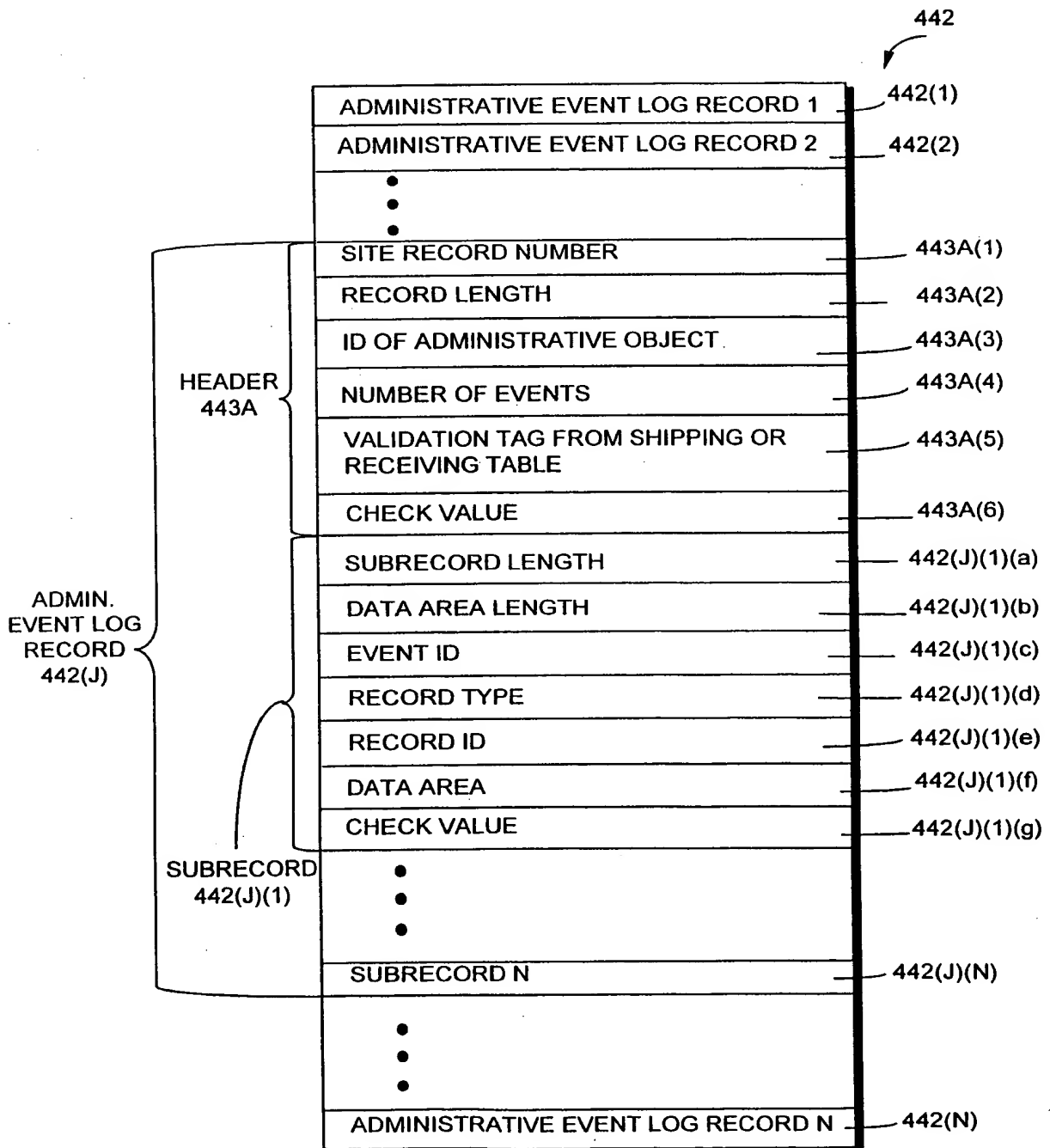
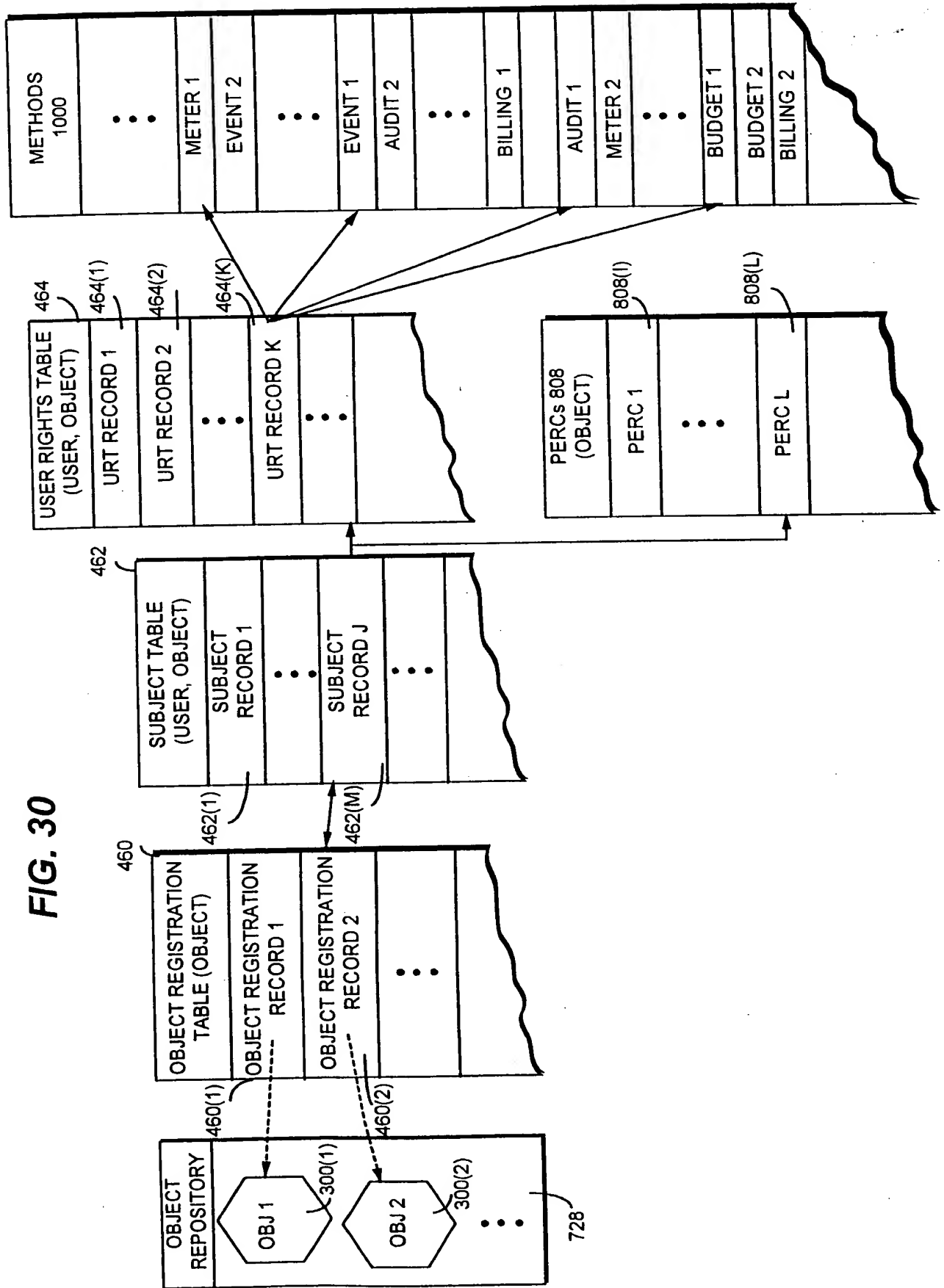


FIG. 30



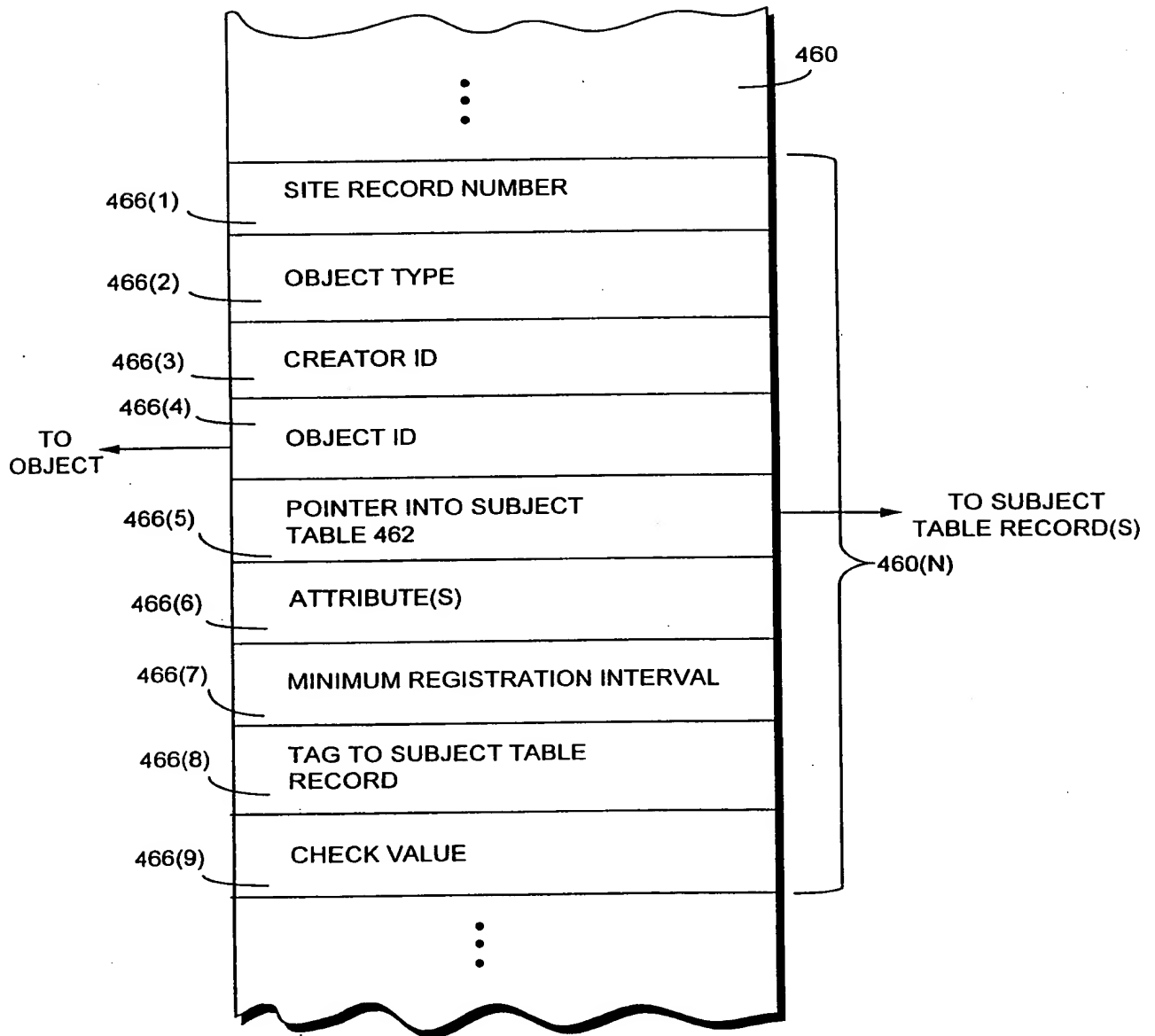


FIG. 31

FIG. 32

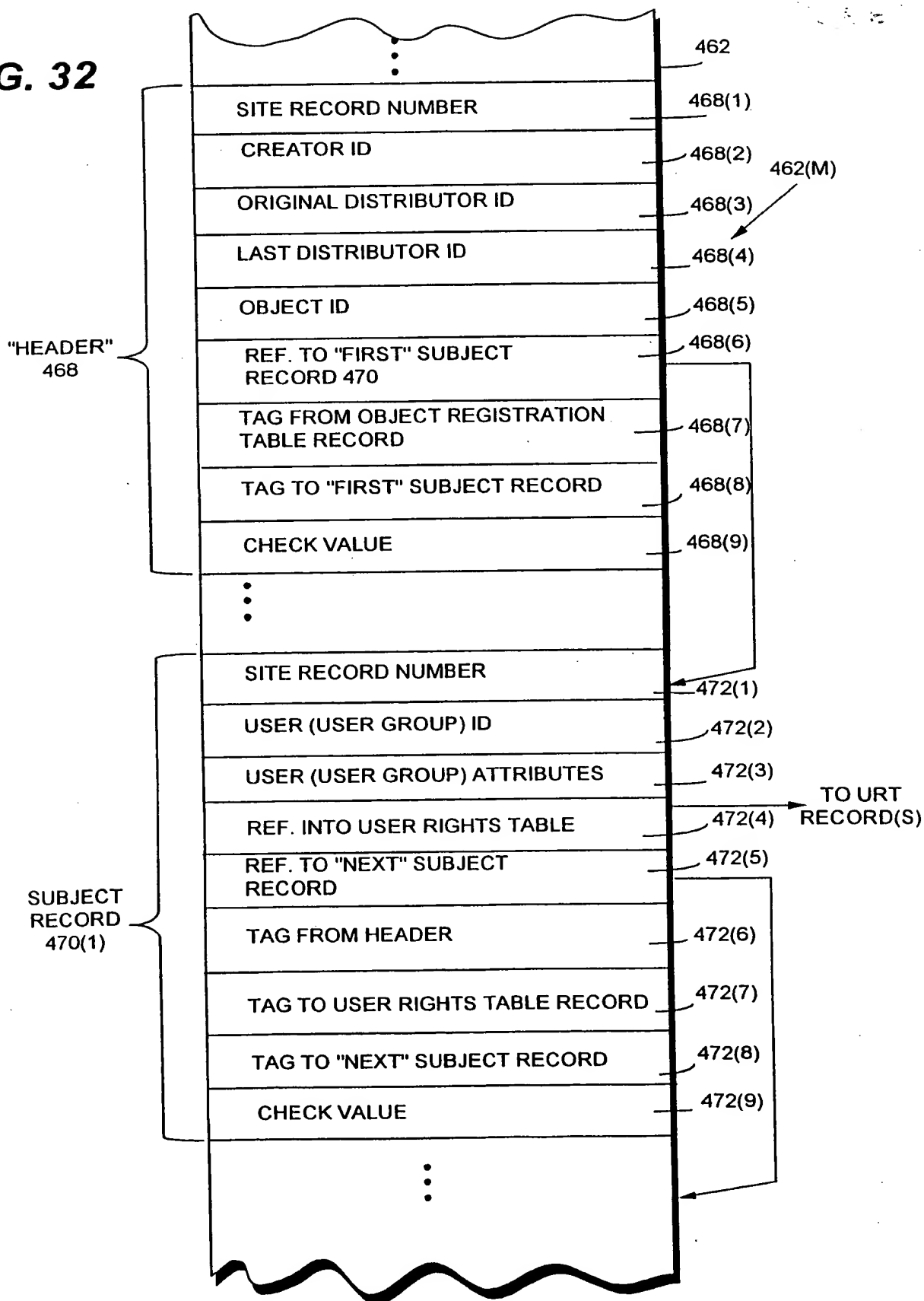


FIG. 33

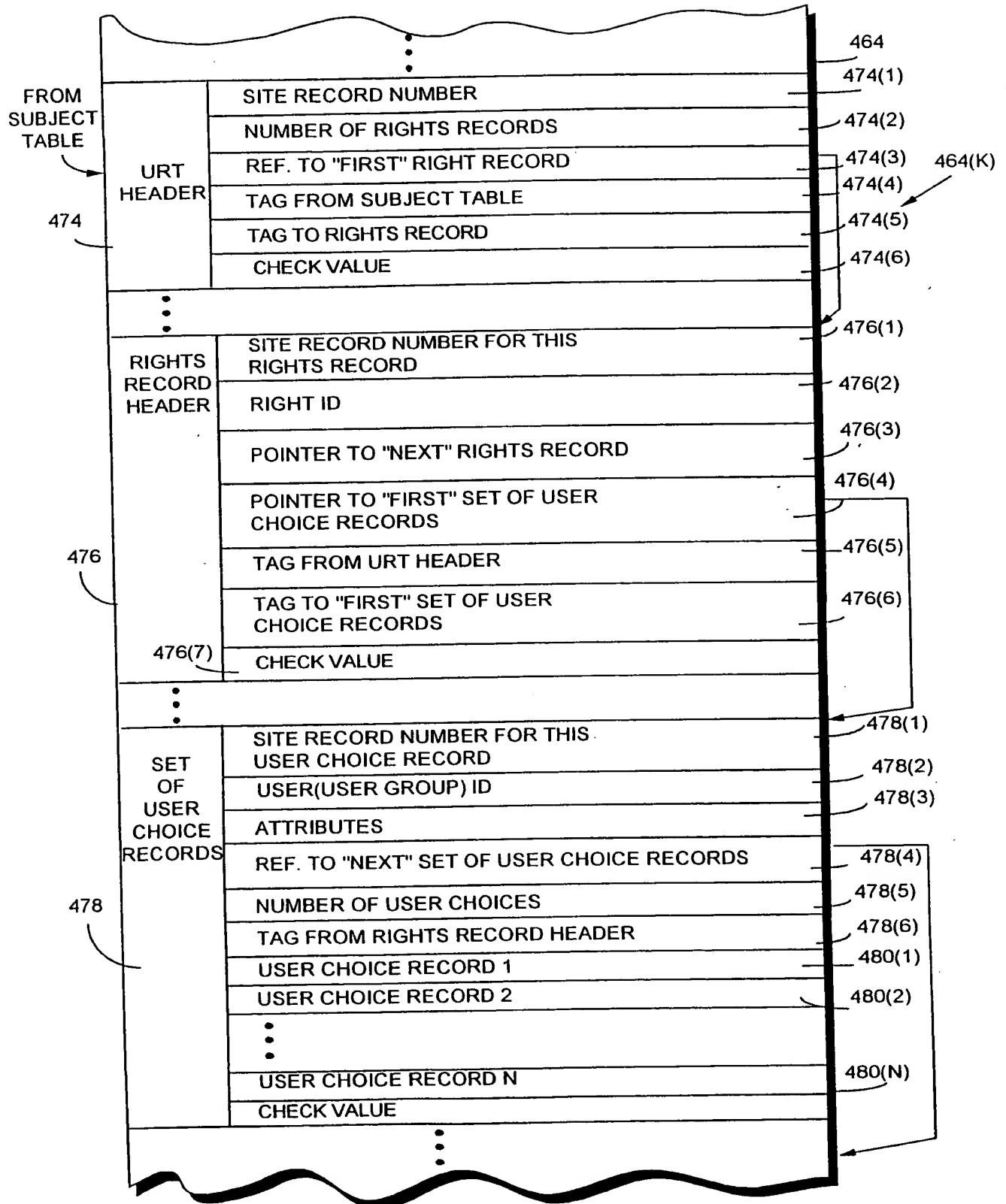


FIG. 34

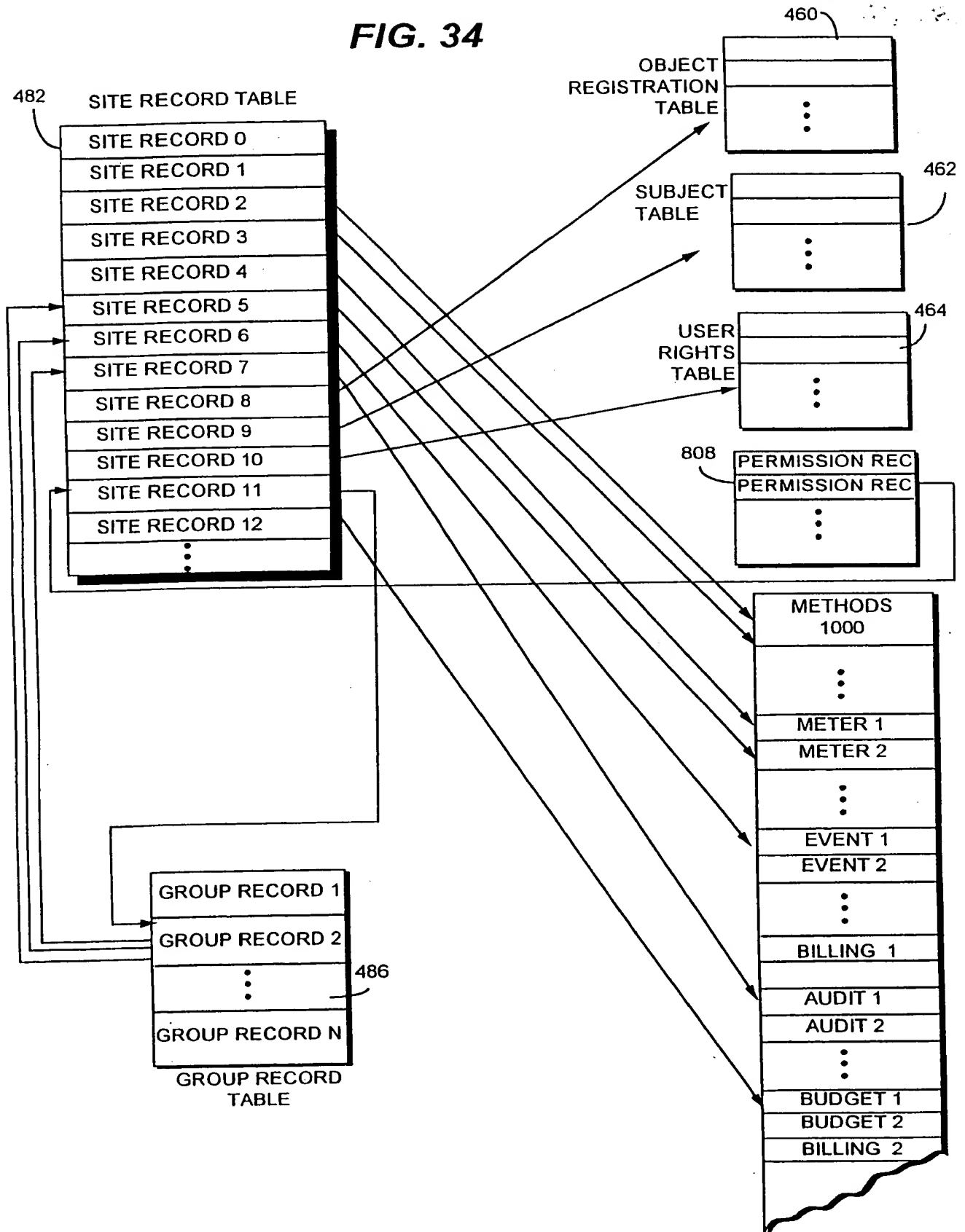


FIG. 34A

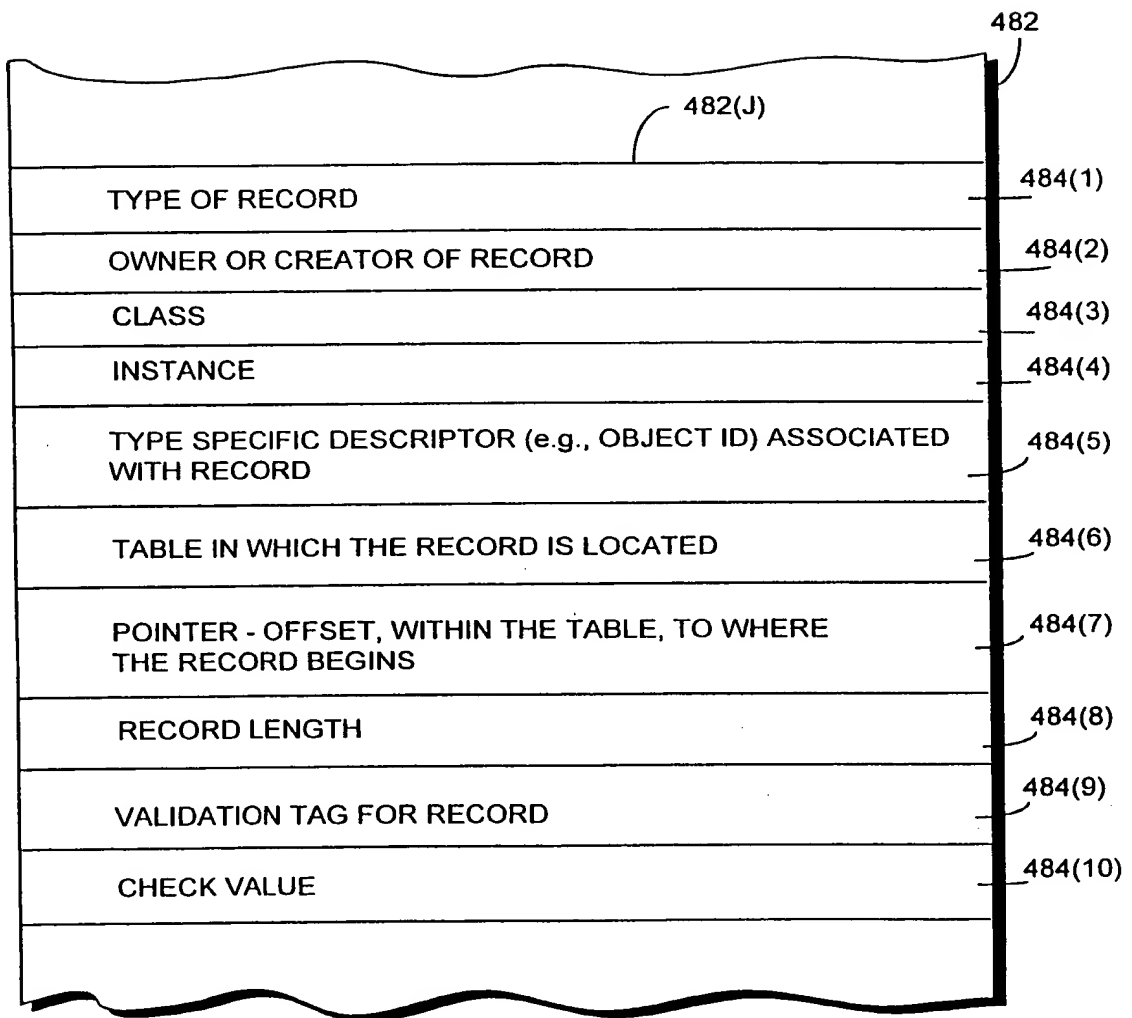


FIG. 34B

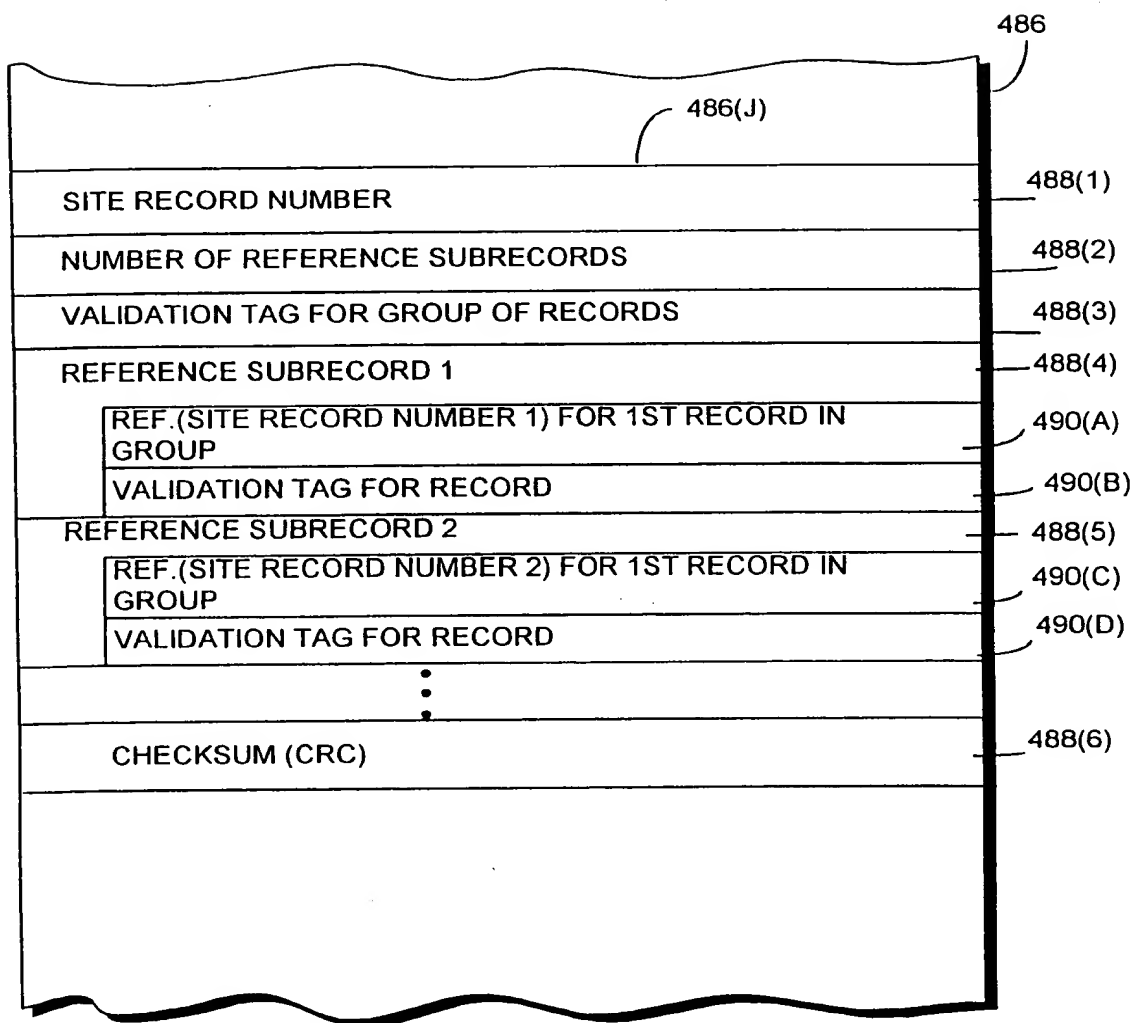


FIG. 35

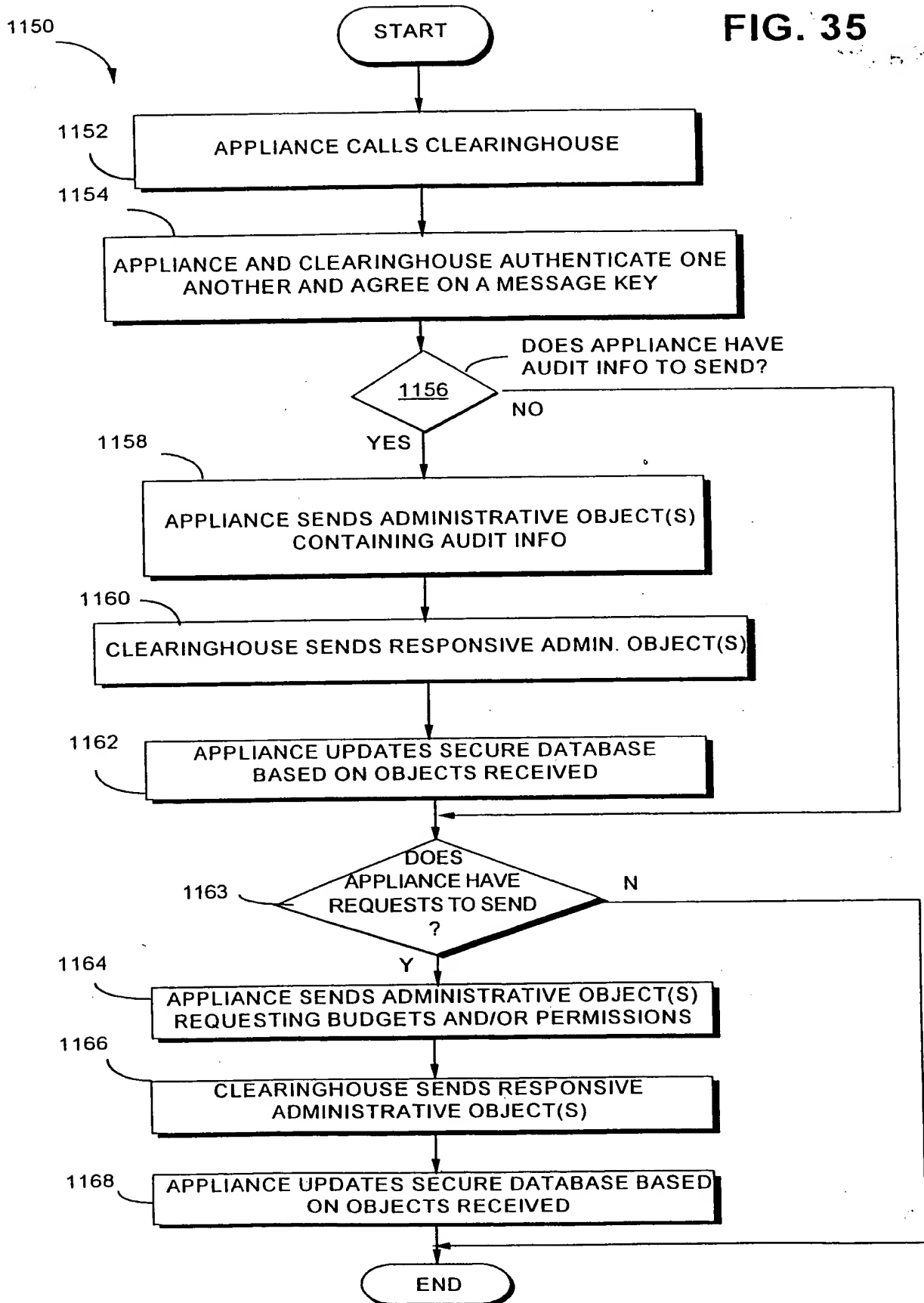


FIG. 36

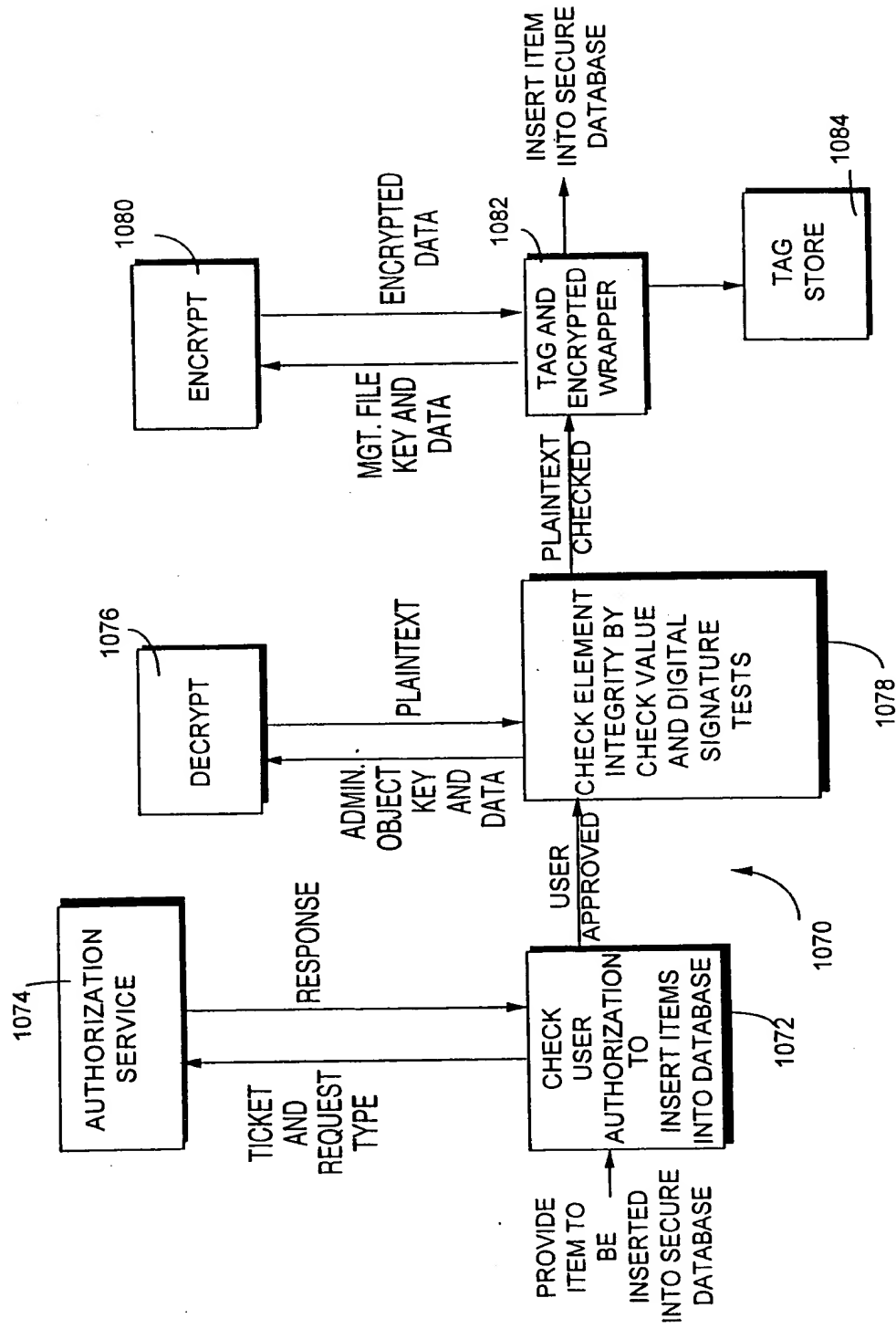


FIG. 37

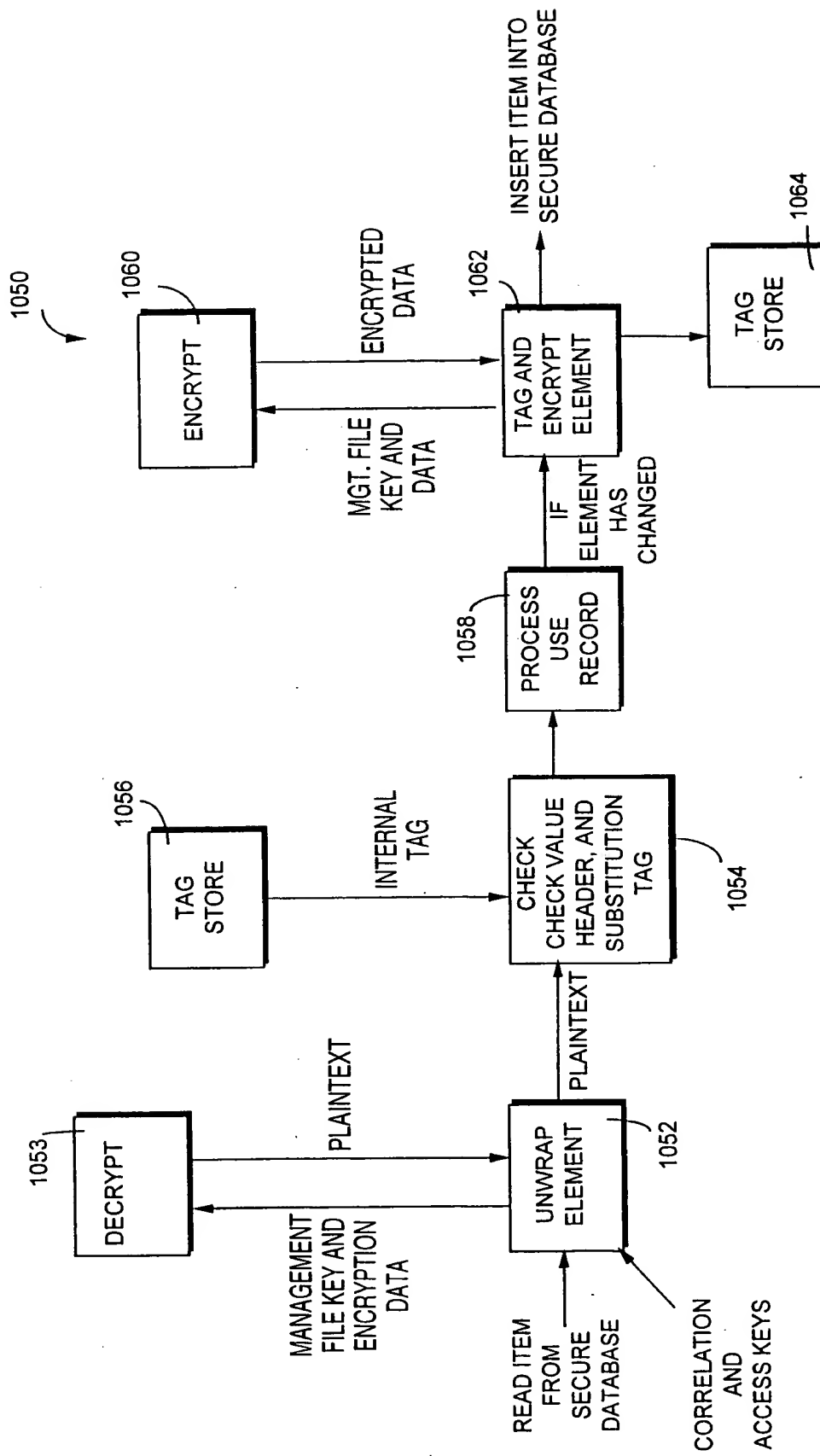


FIG. 38

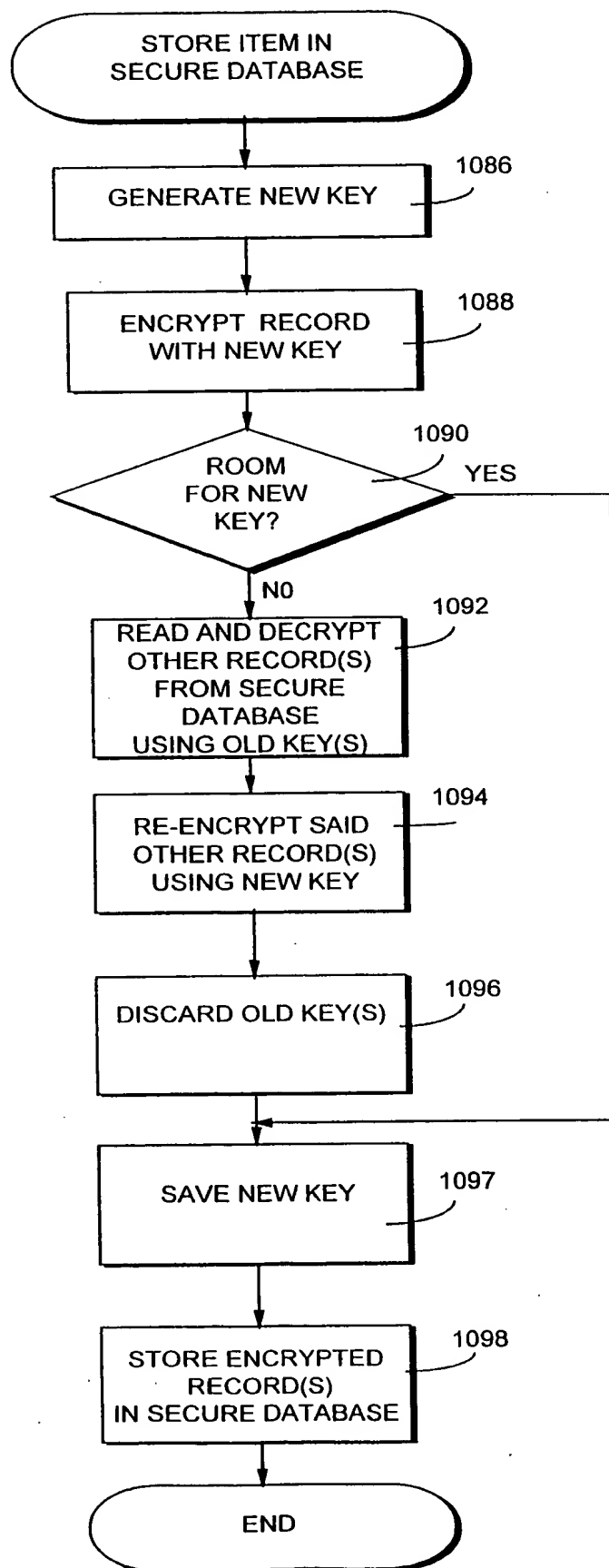


FIG. 39

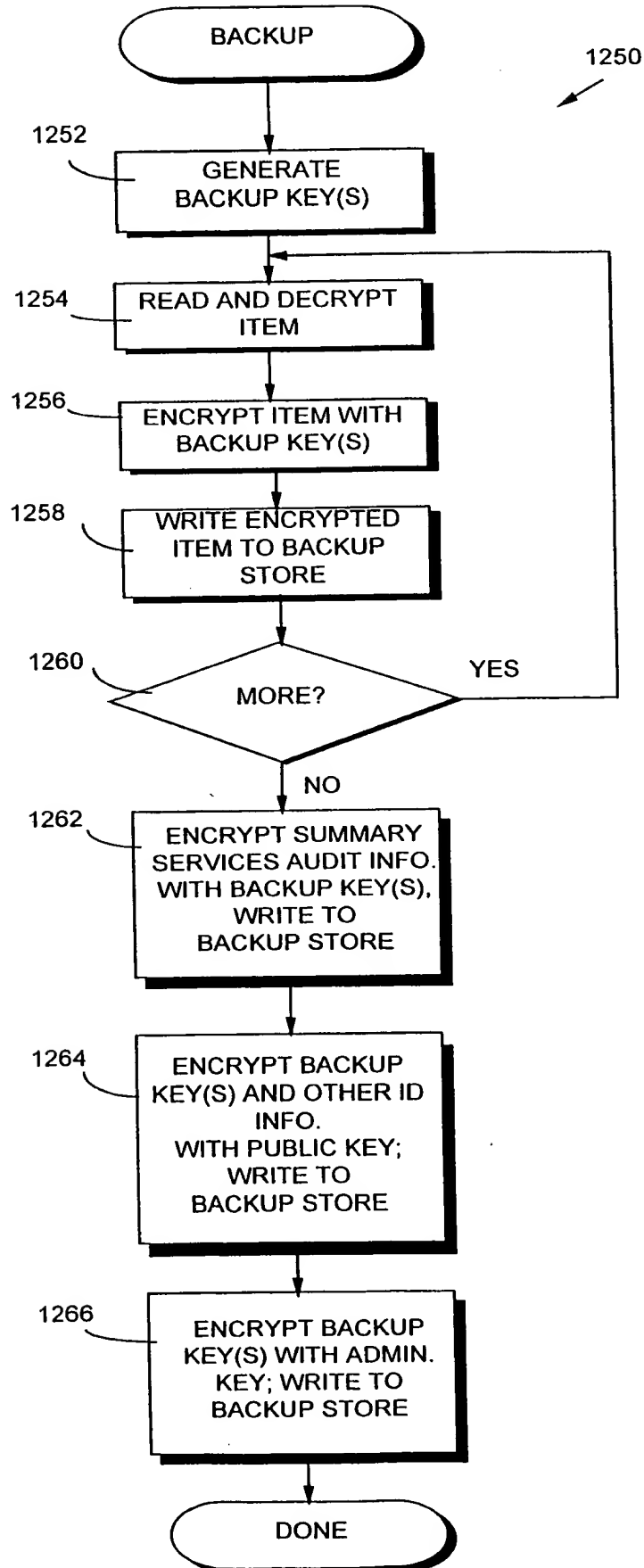
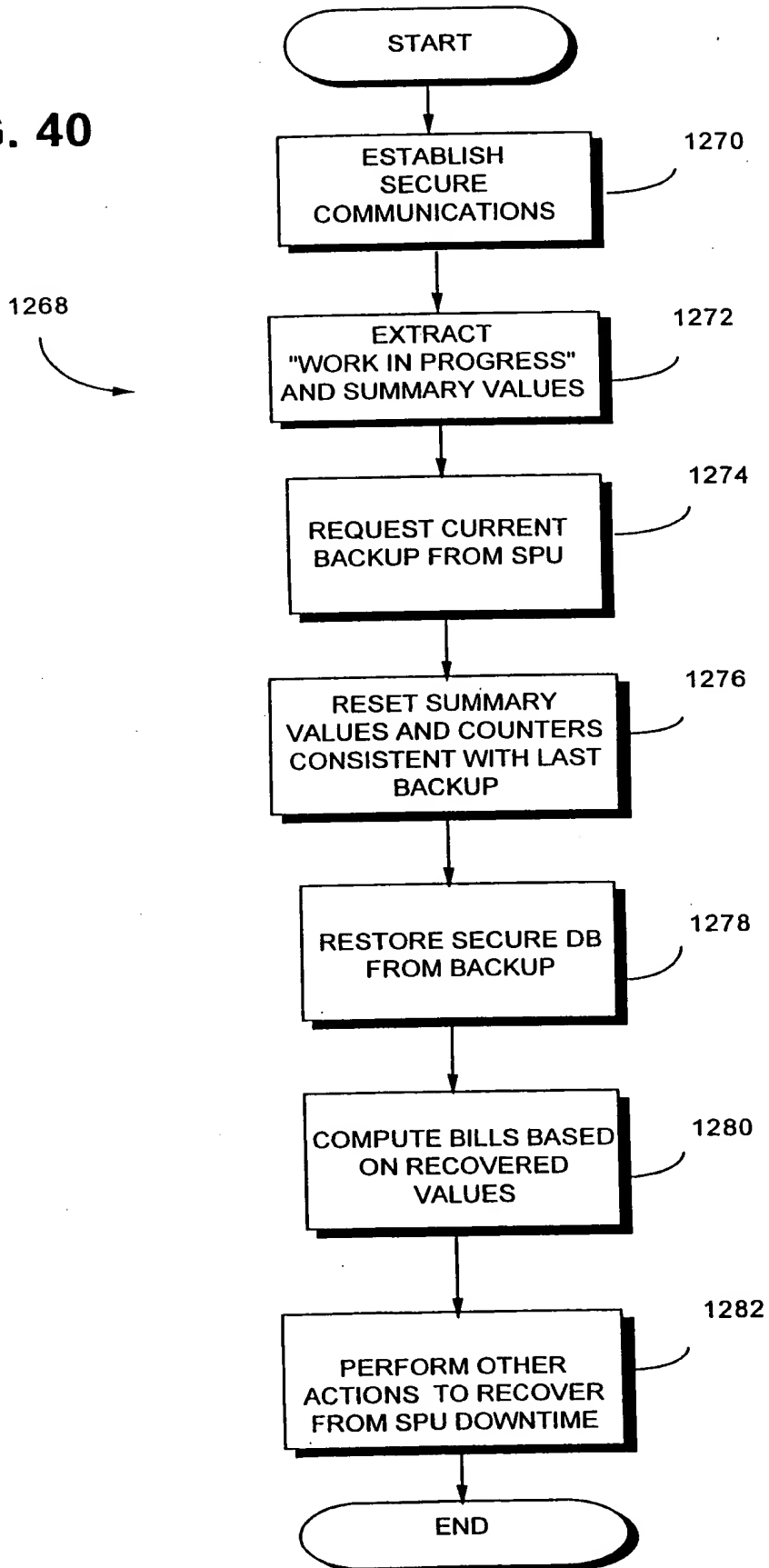


FIG. 40



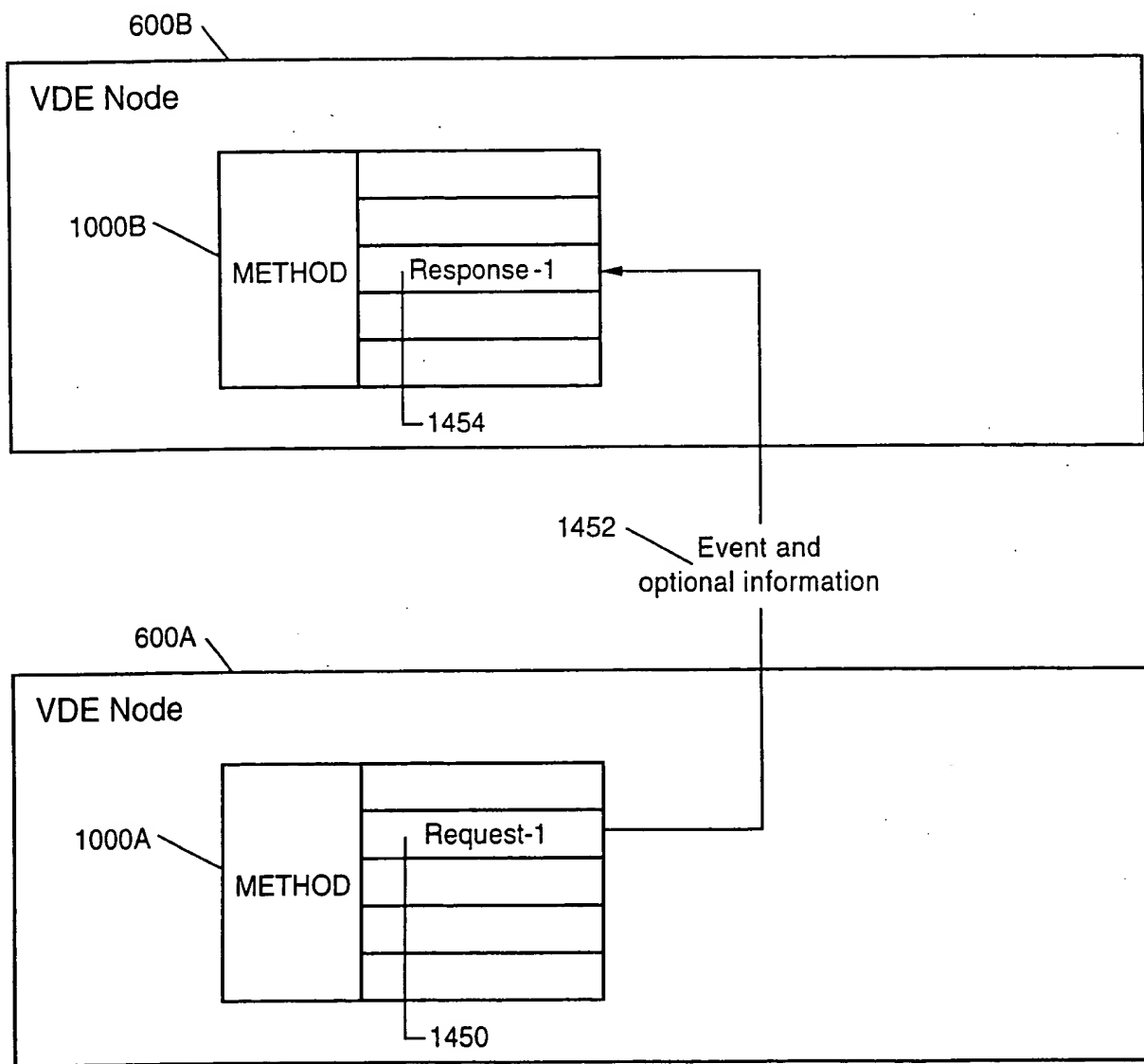


FIG. 41a

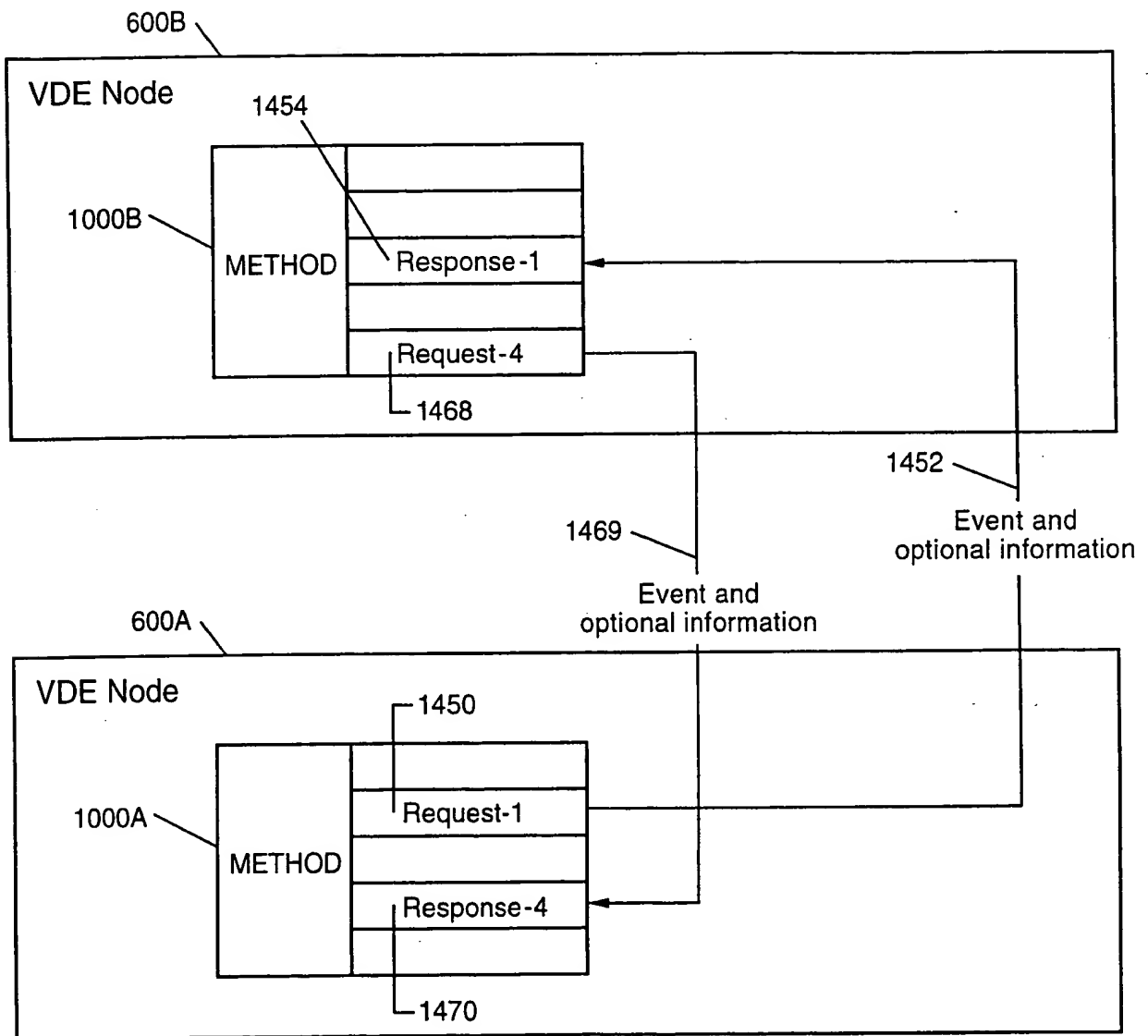
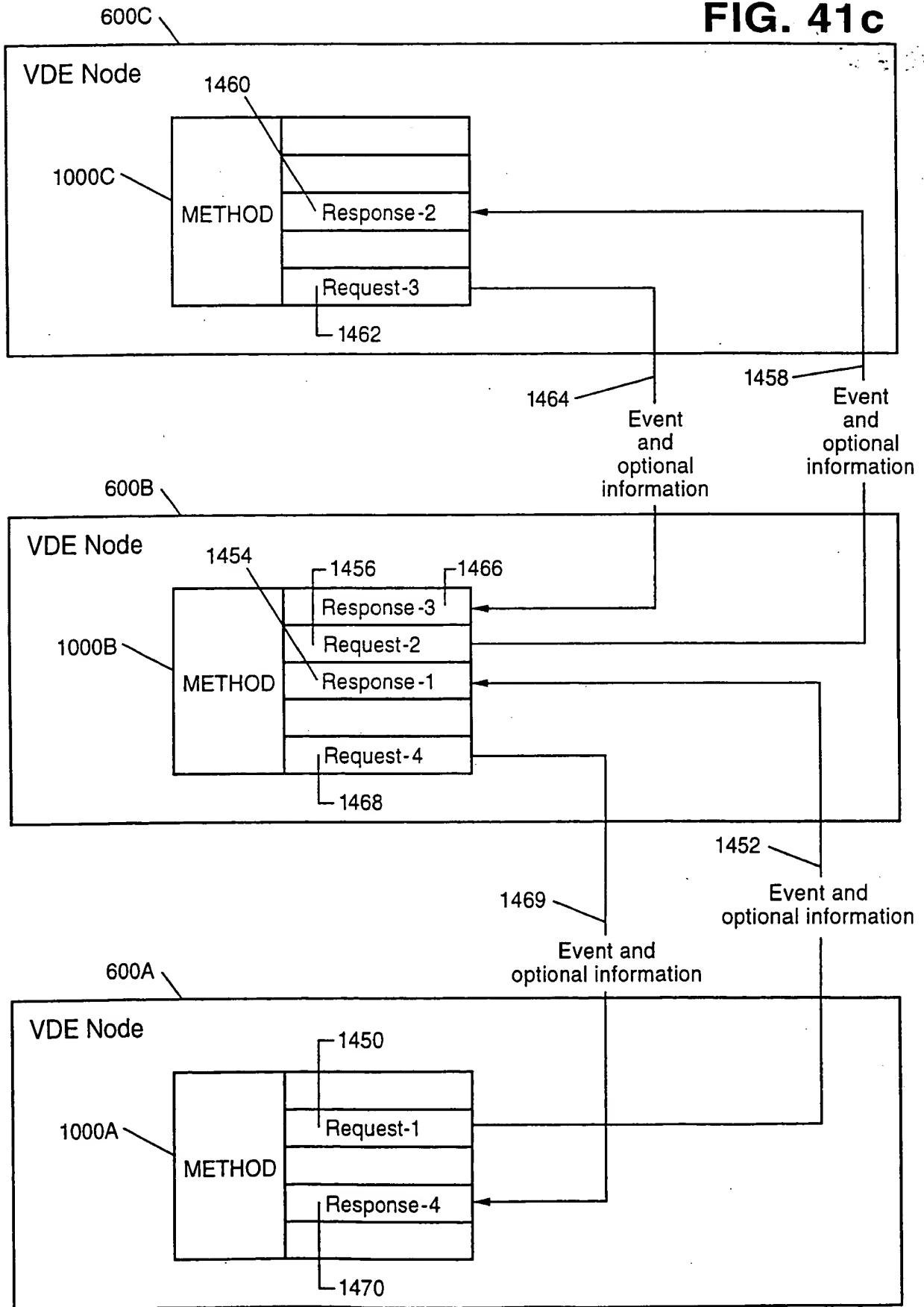
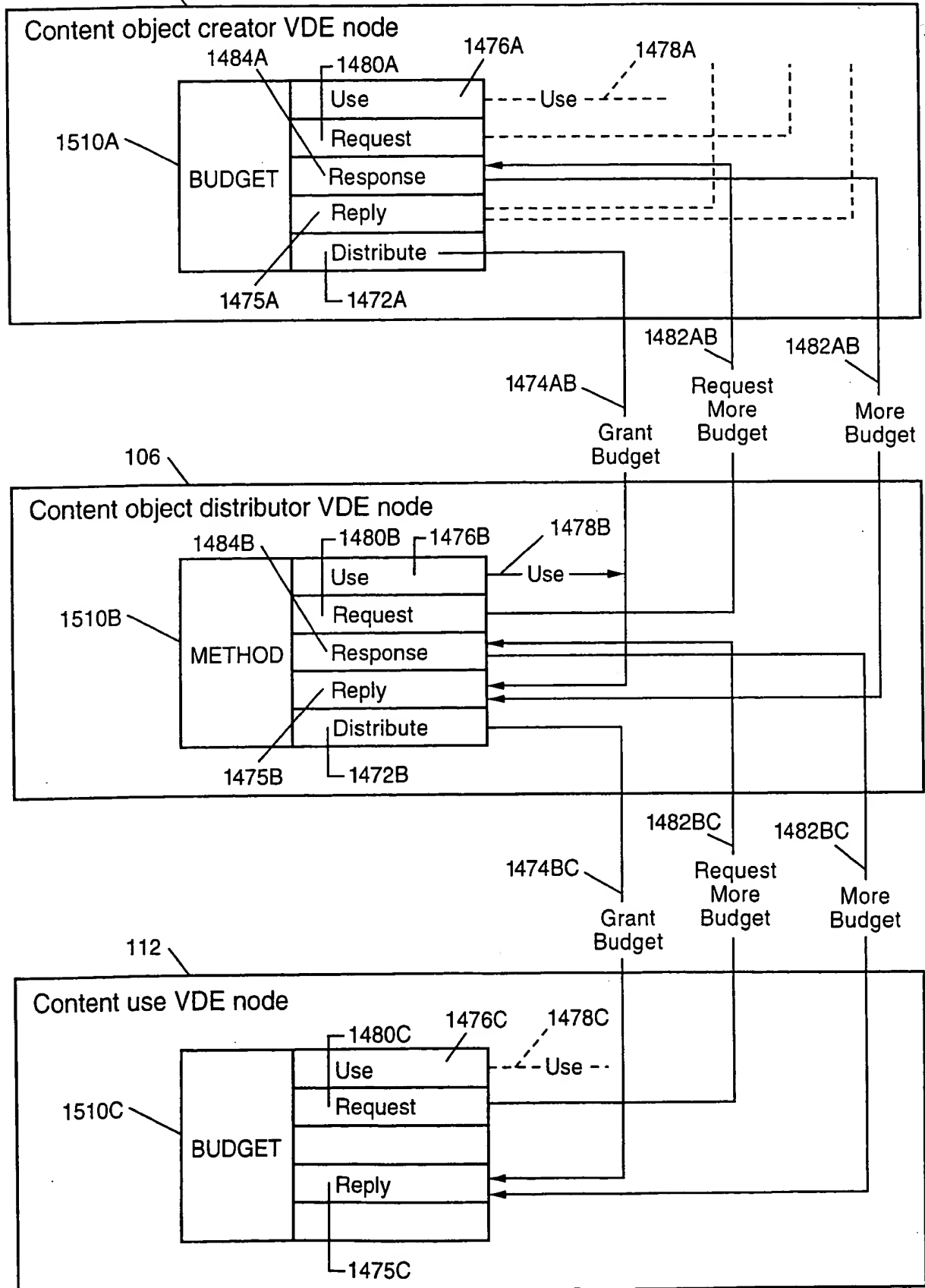


FIG. 41b

FIG. 41c



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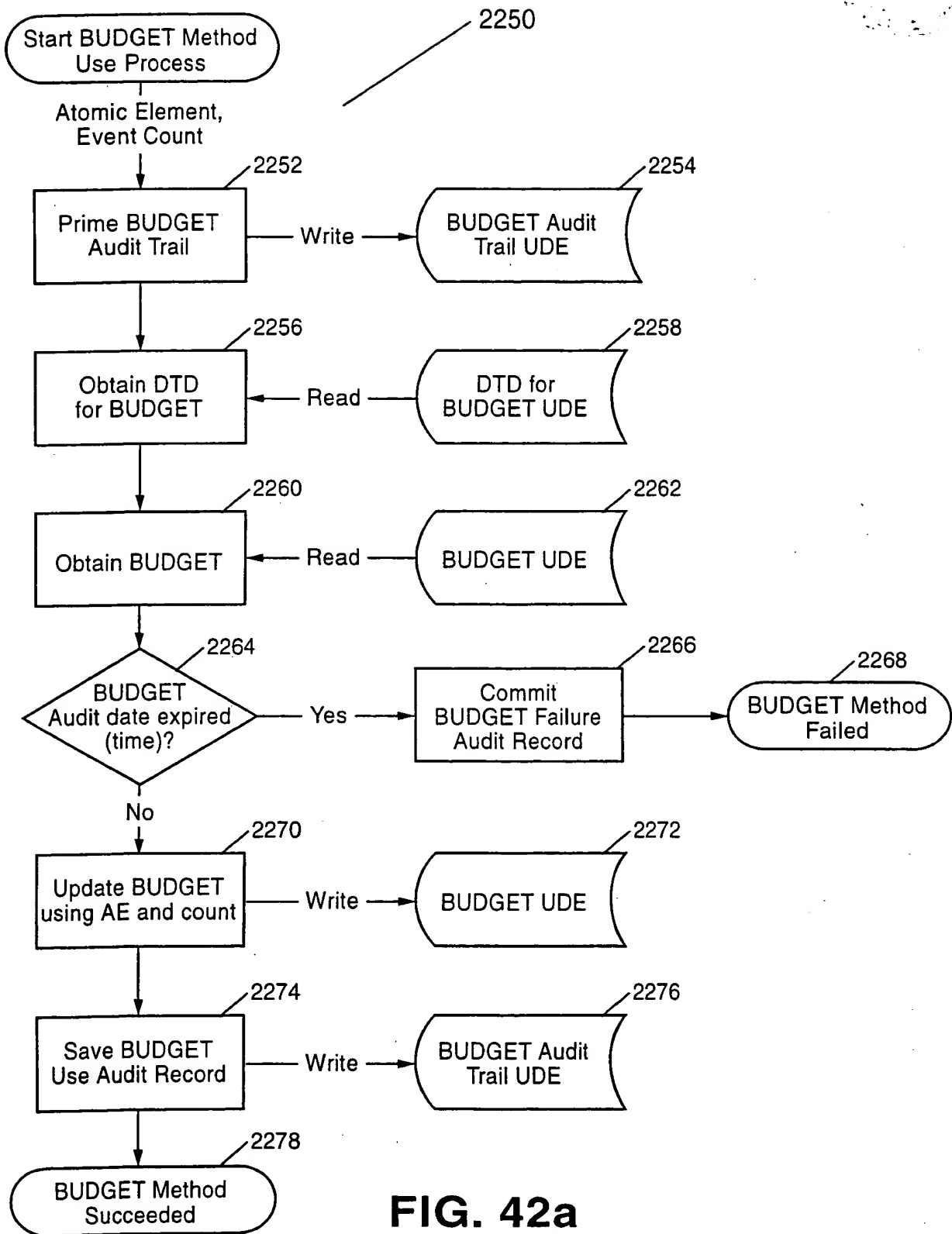


FIG. 42a

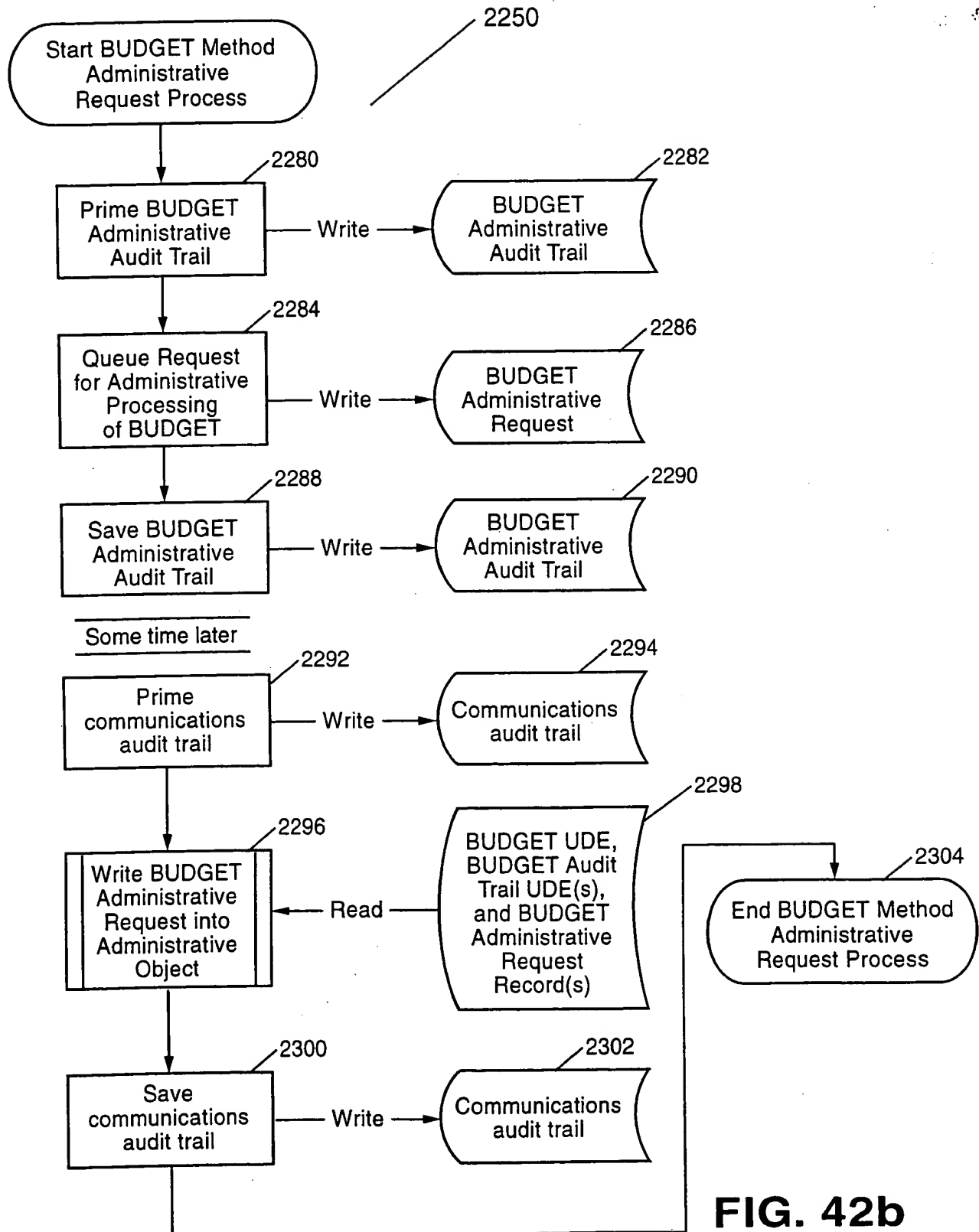


FIG. 42b

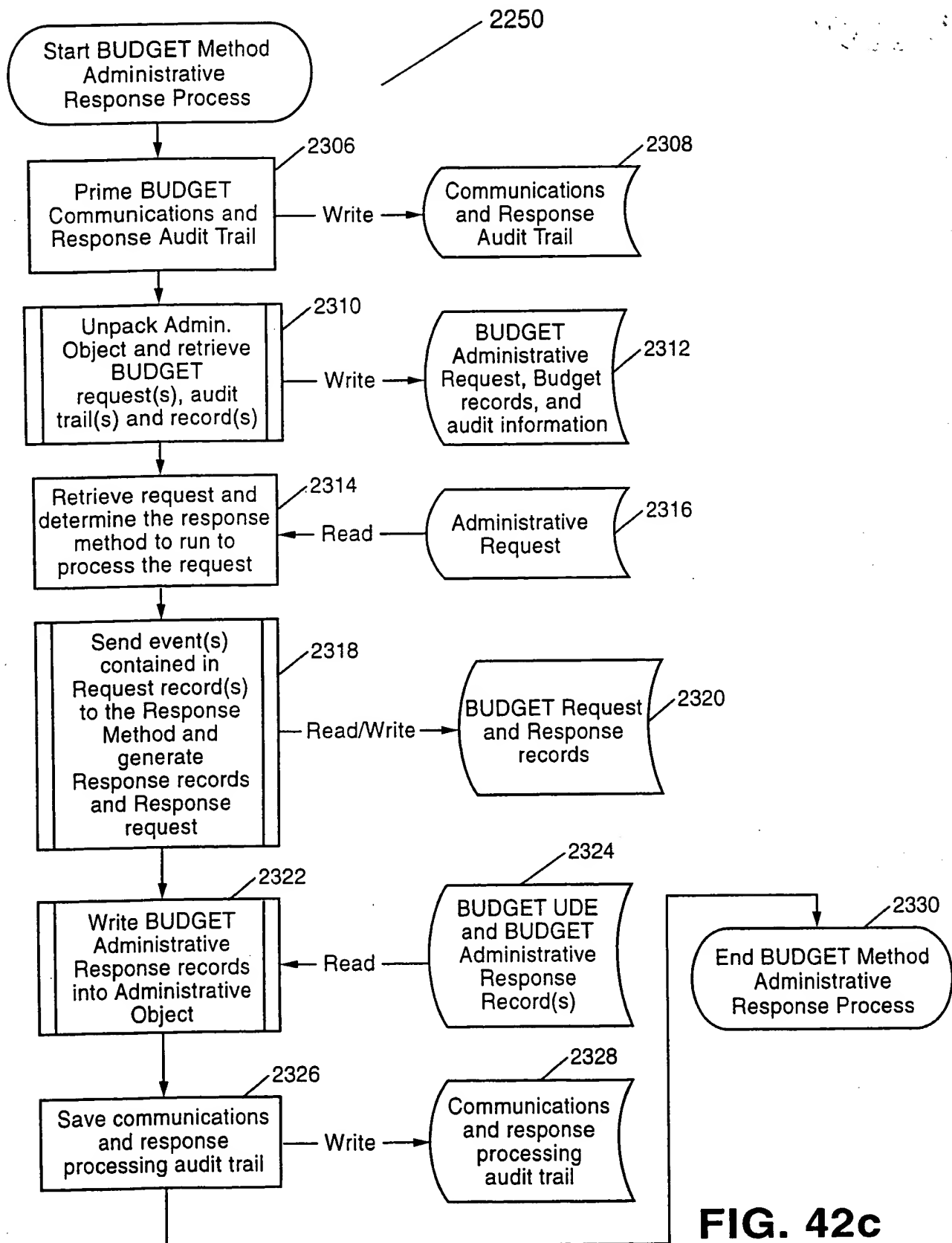


FIG. 42c

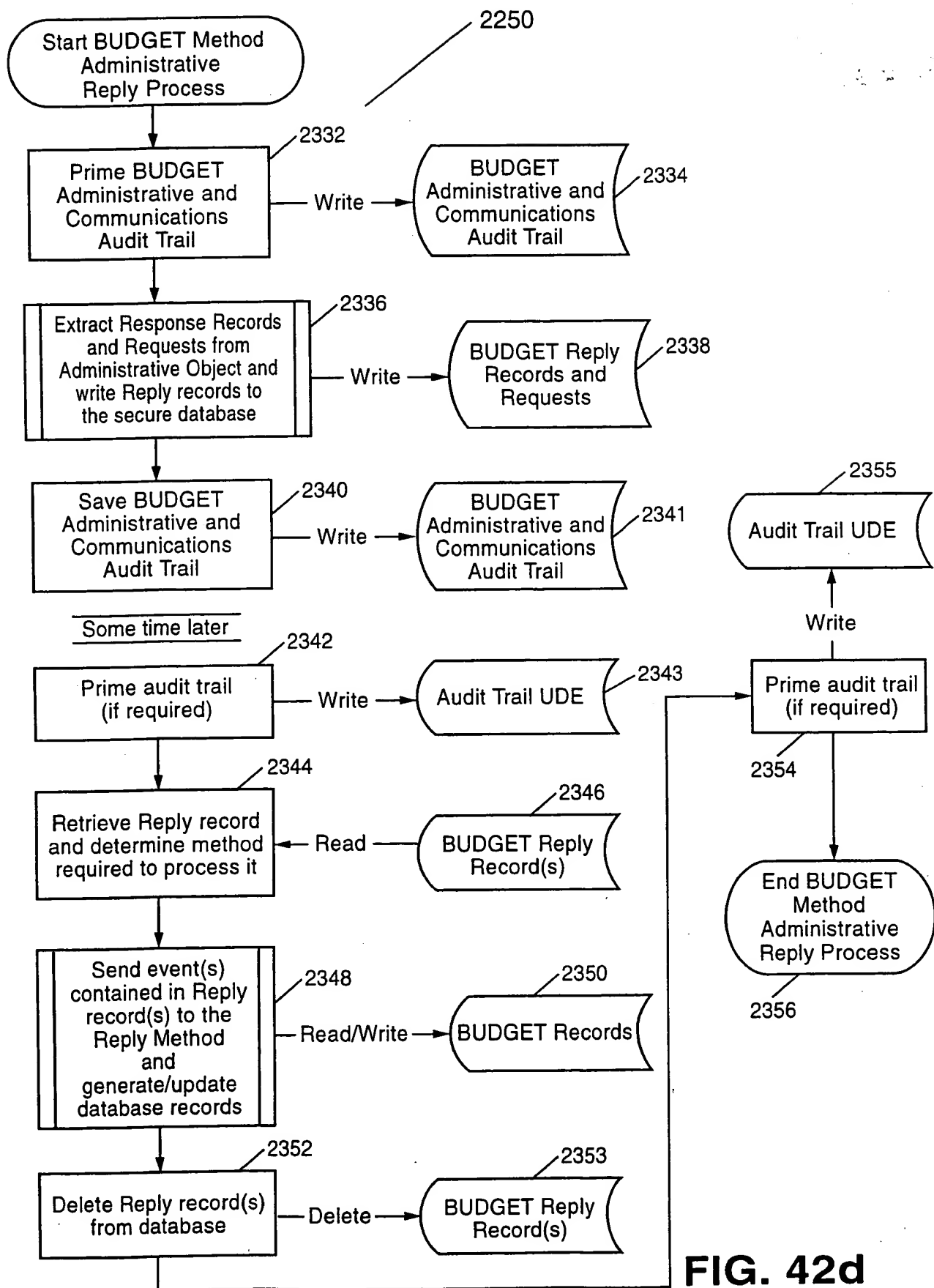


FIG. 42d

FIG. 43a

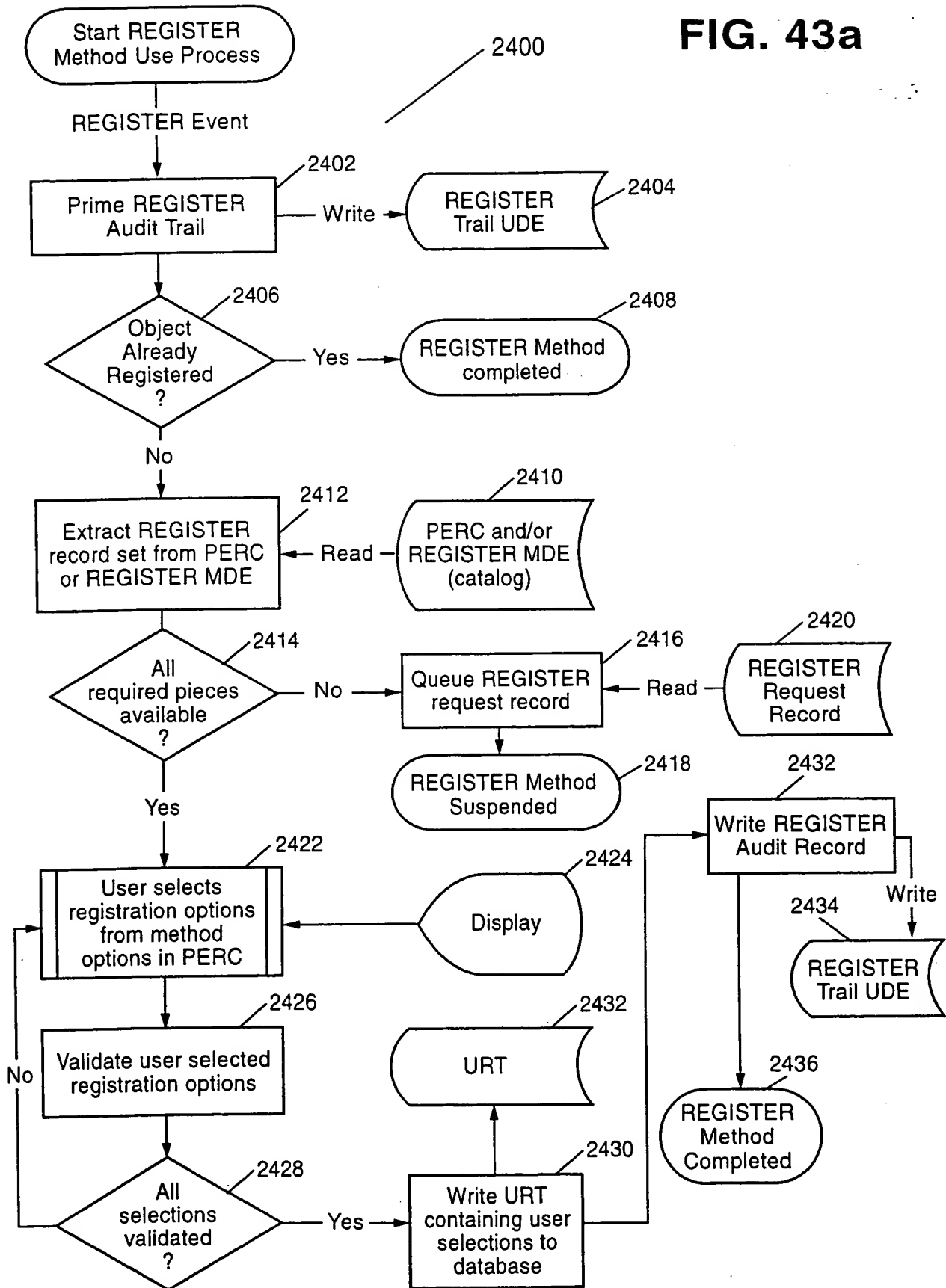


FIG. 43b

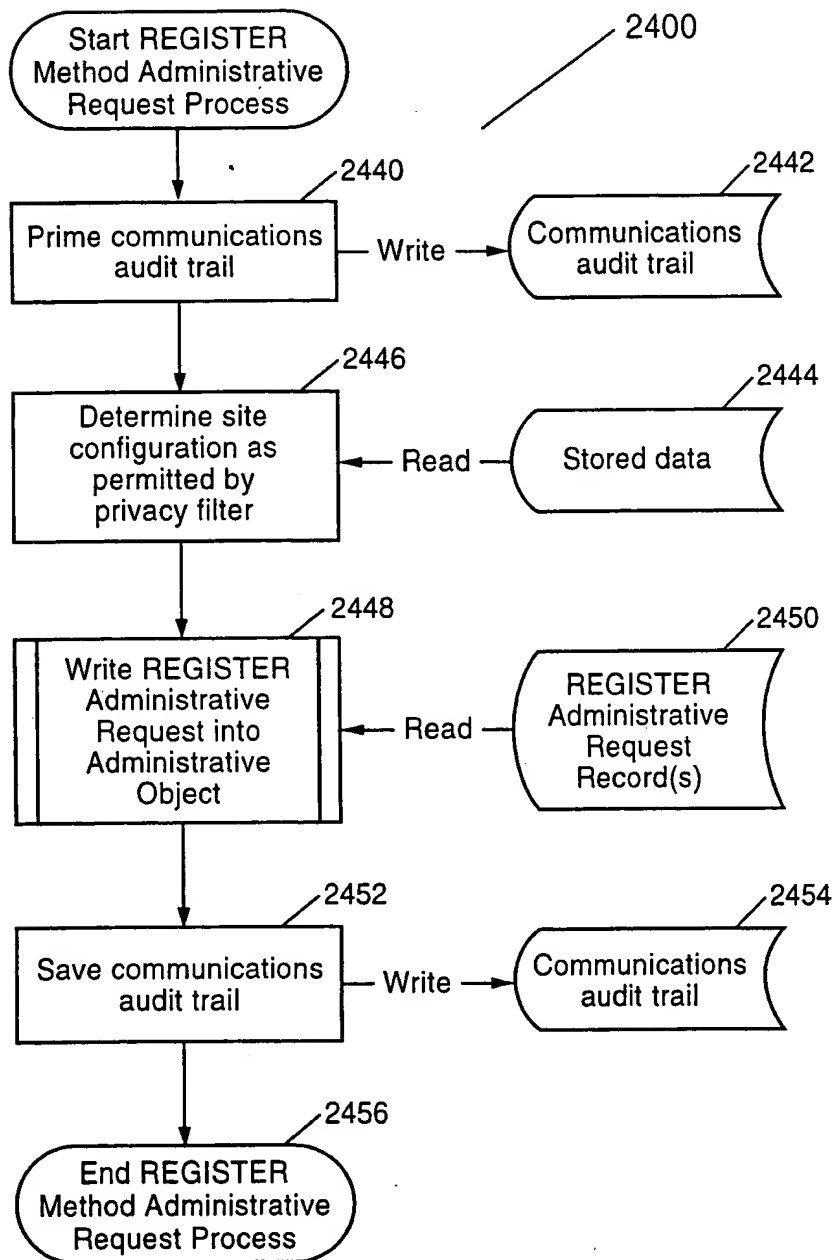


FIG. 43c

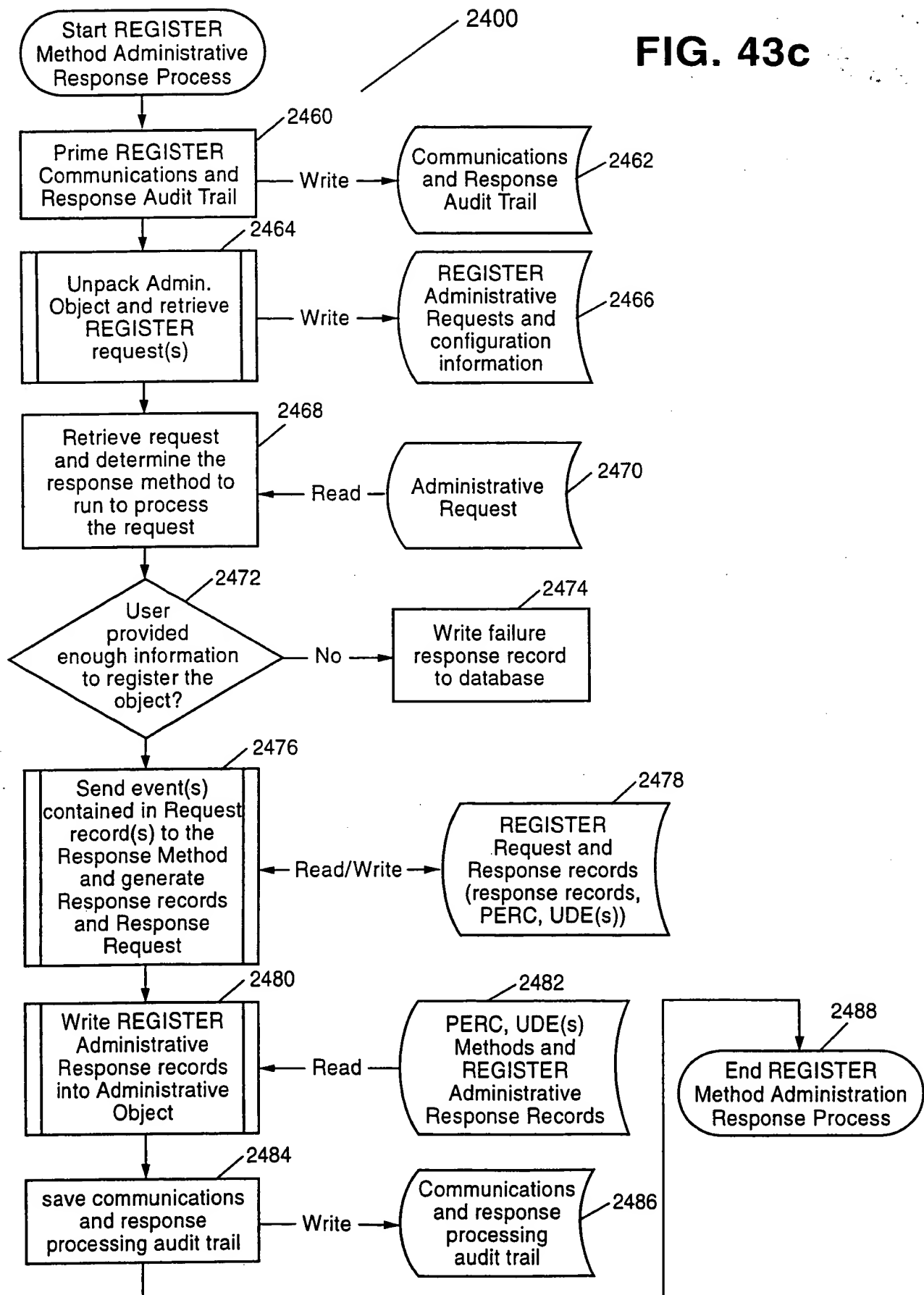


FIG. 43d

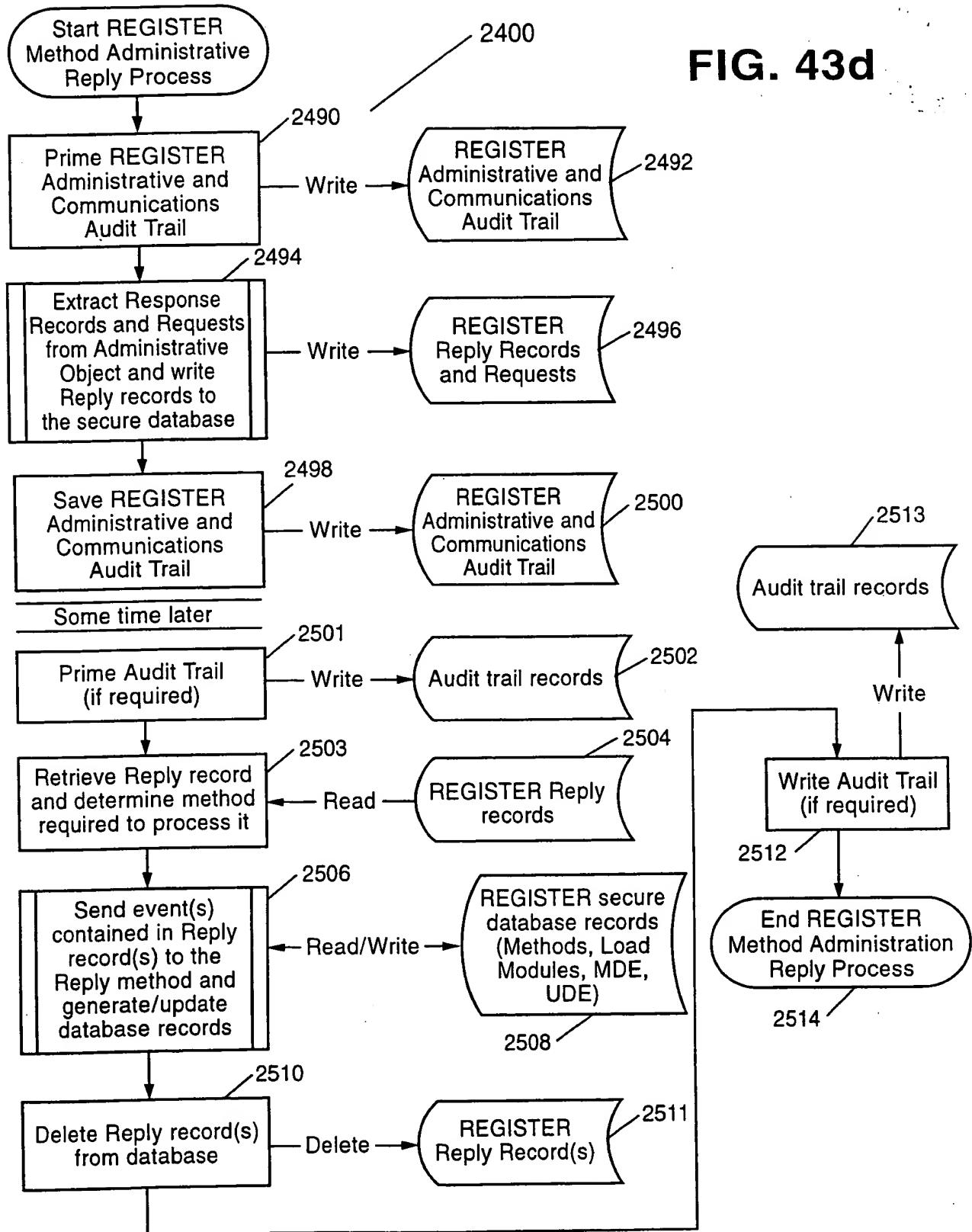


FIG. 44a.

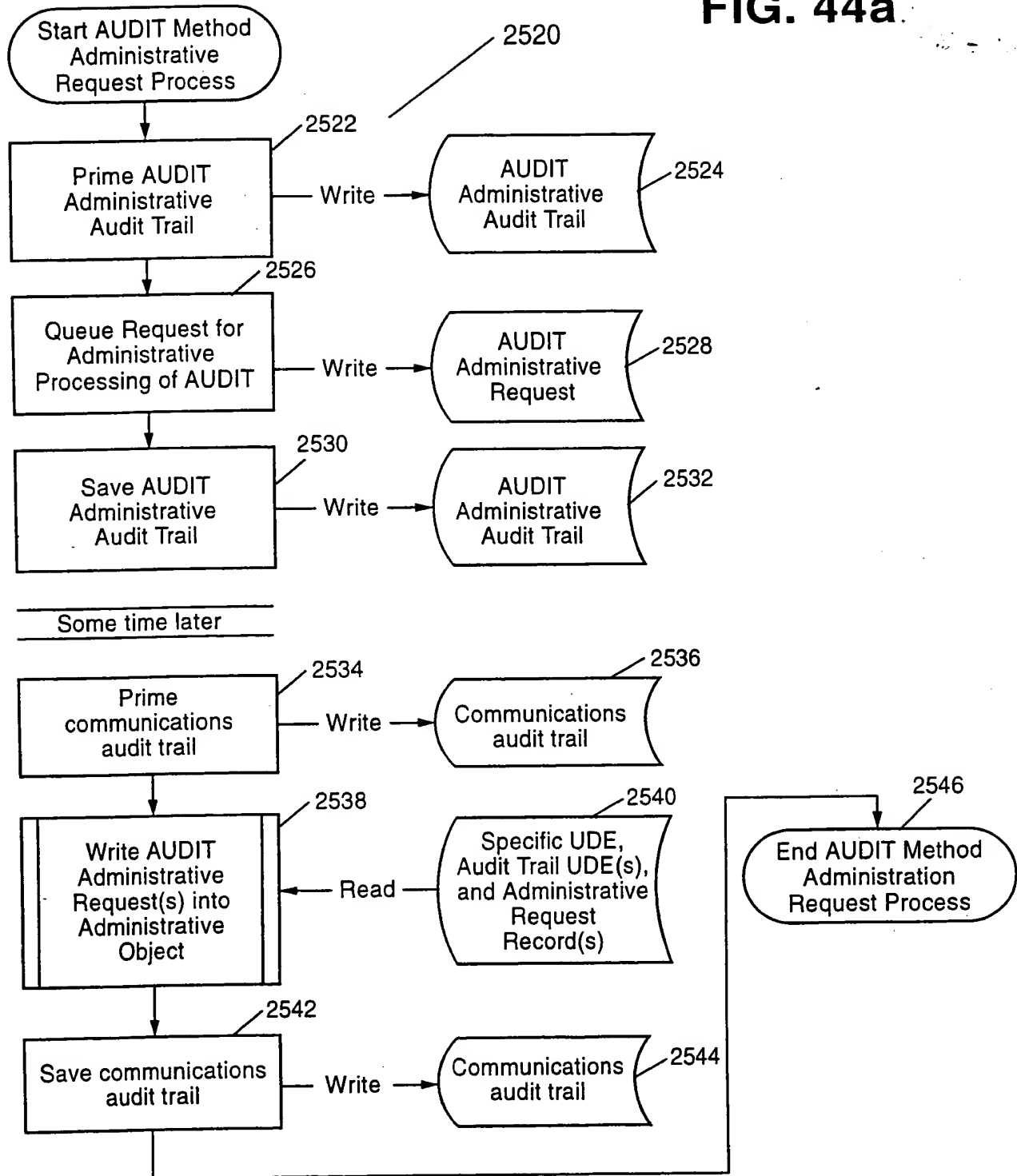


FIG. 44b

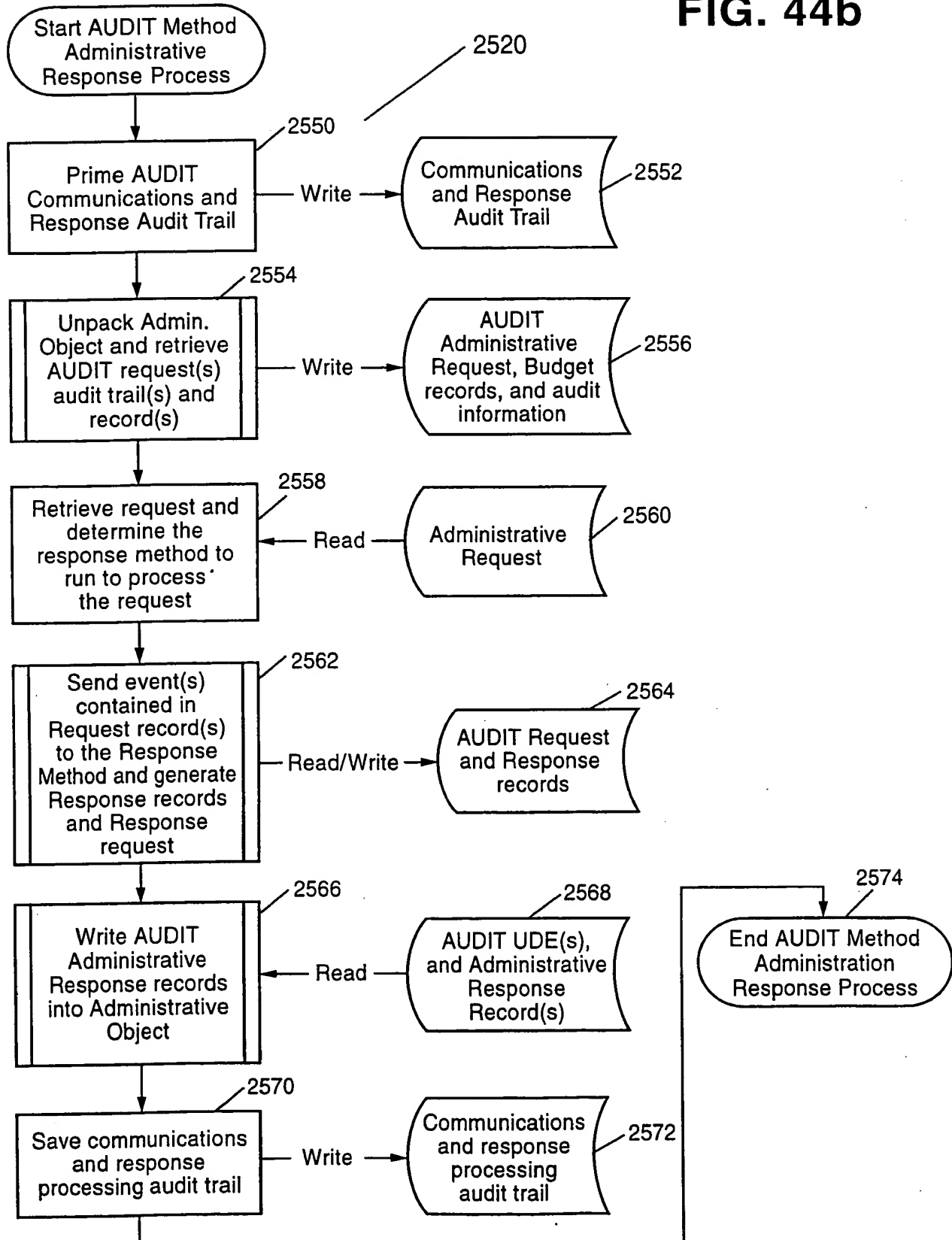


FIG. 44c

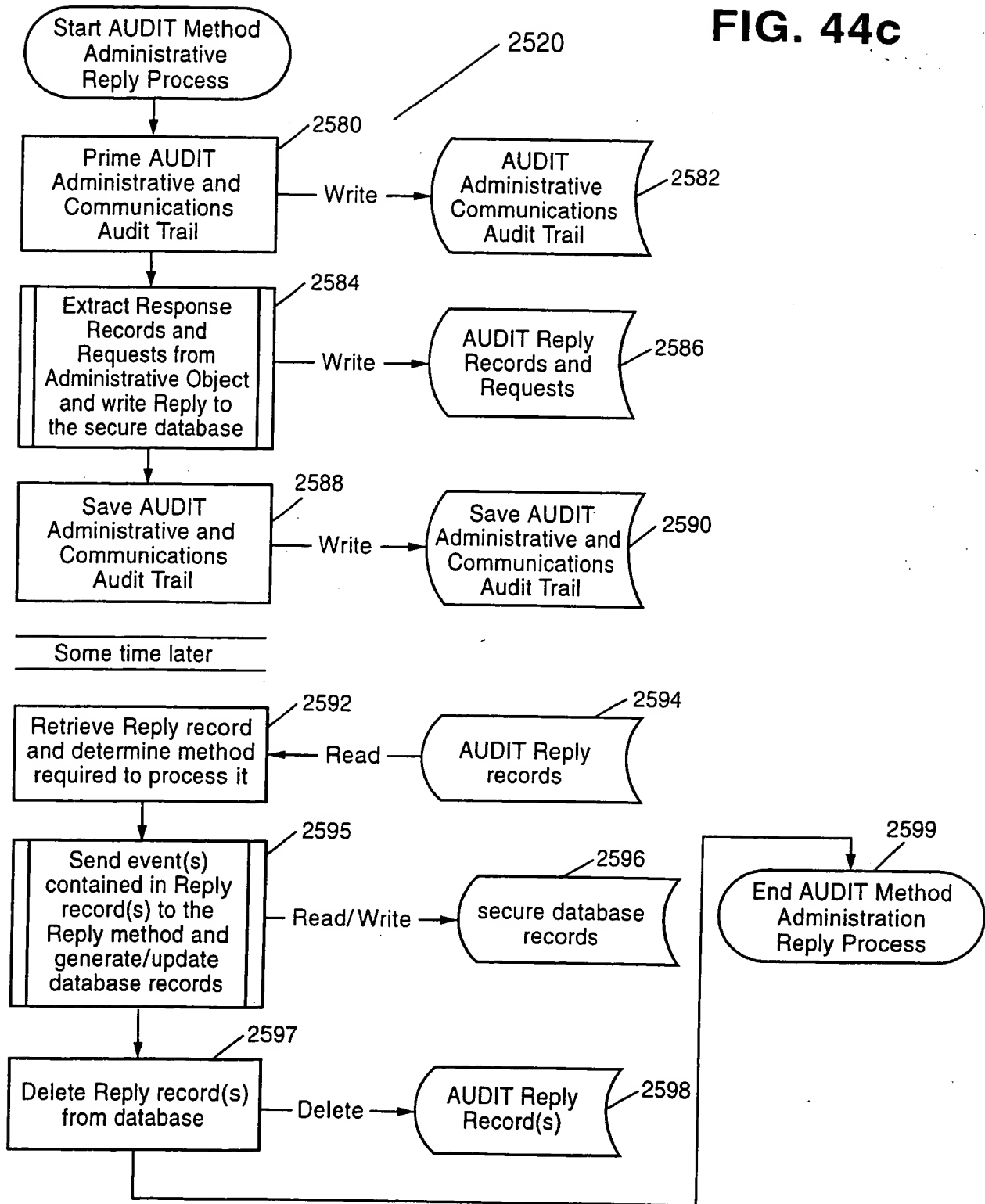


FIG. 45

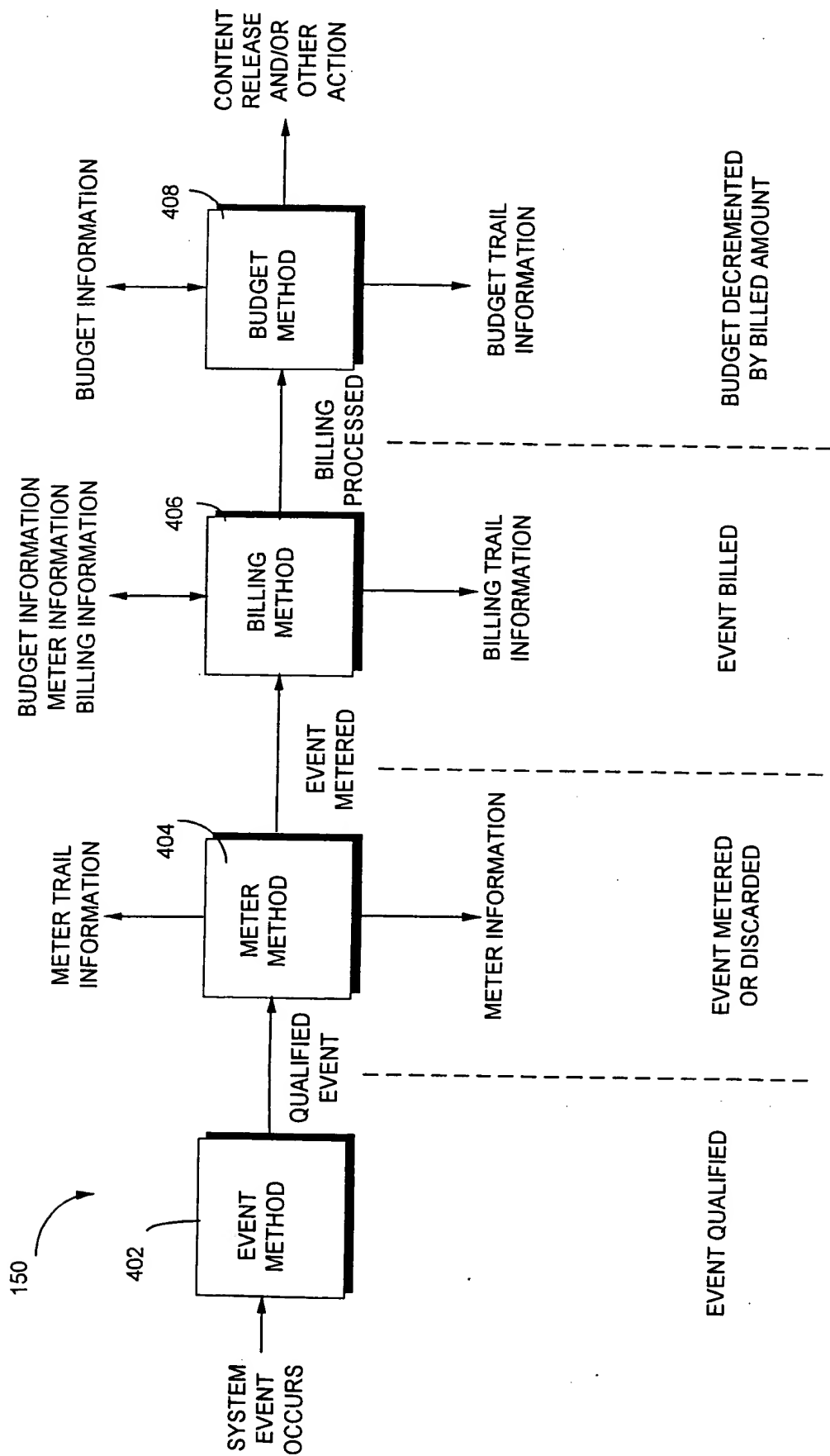


FIG. 46

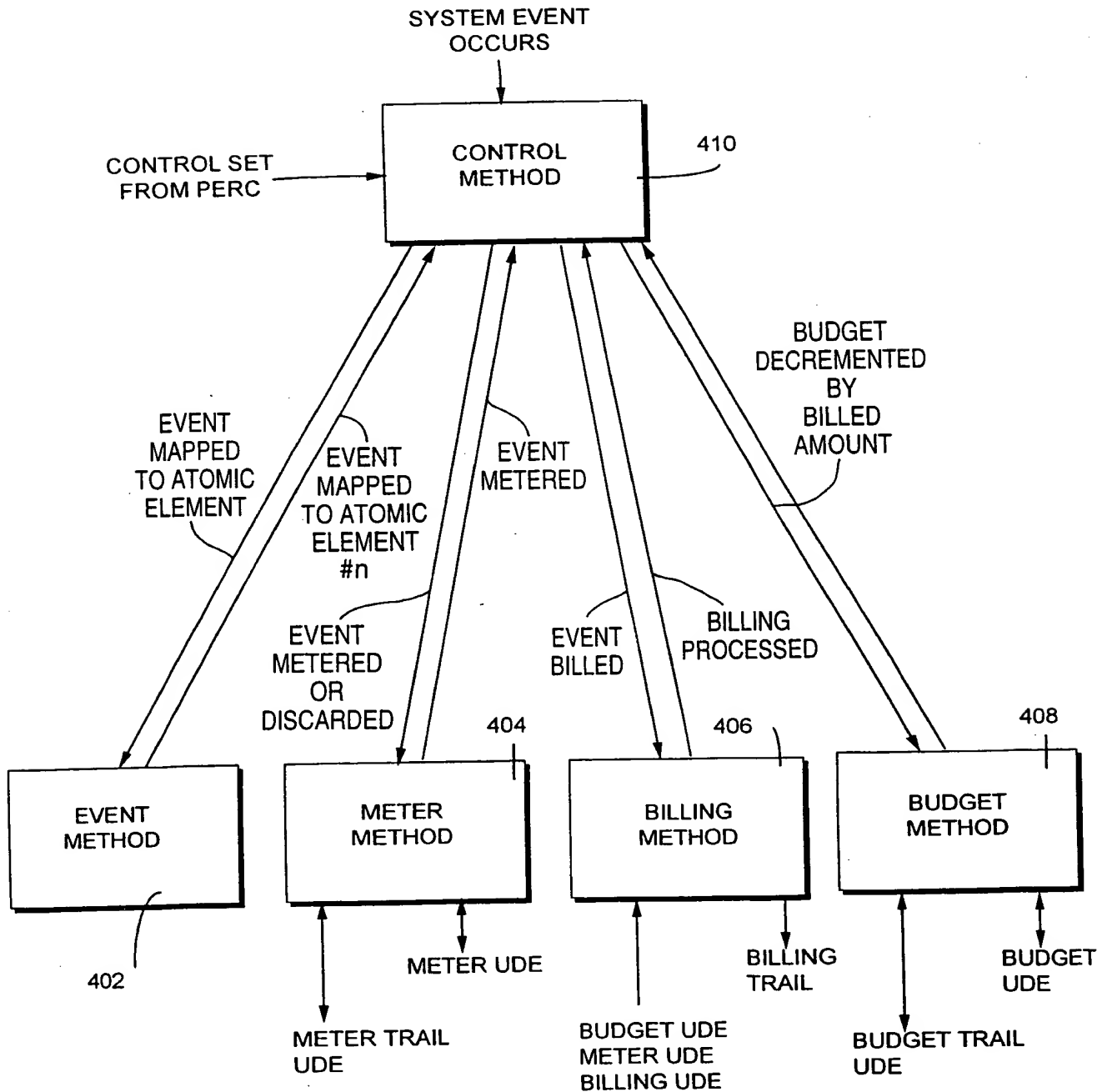


FIG. 47

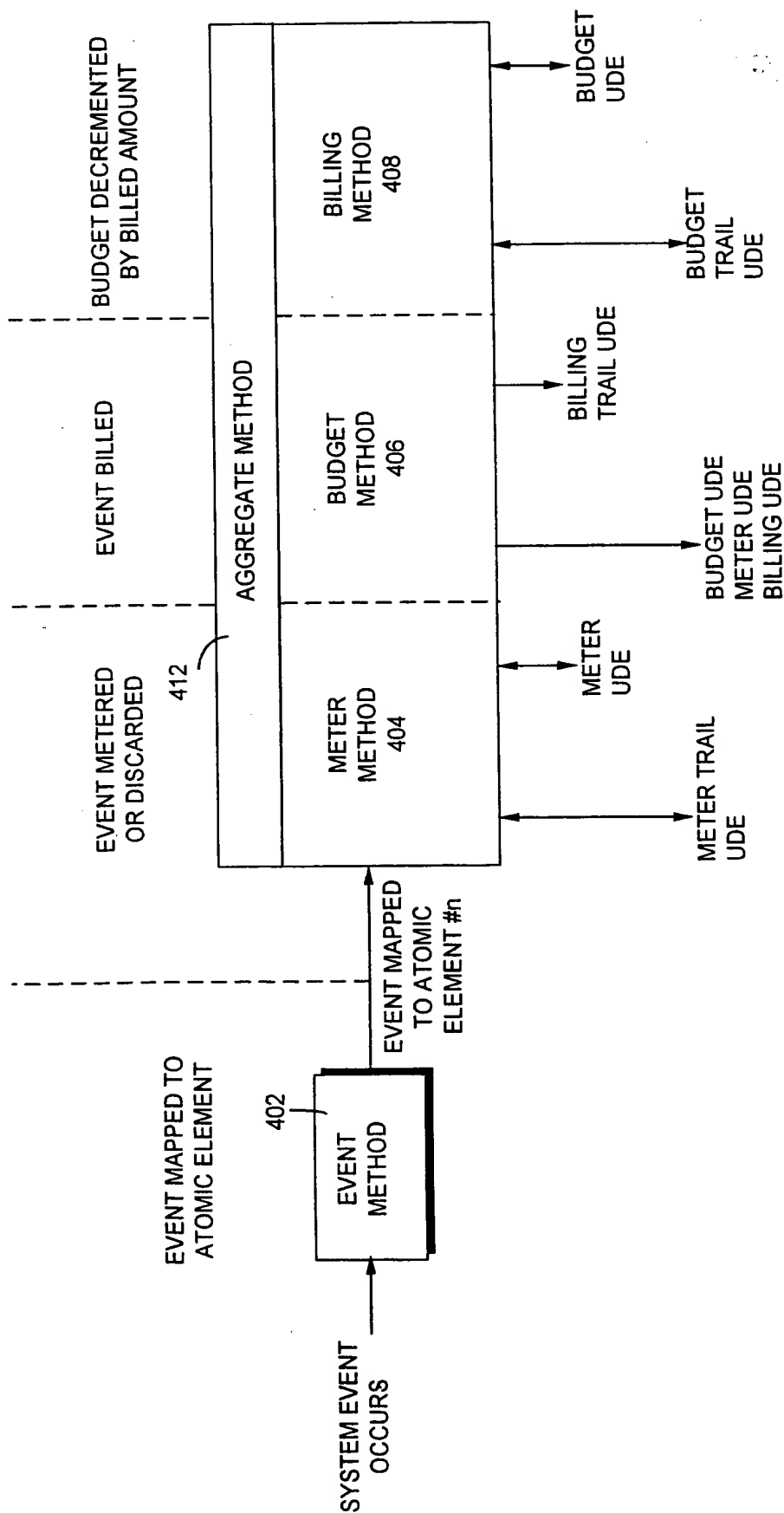
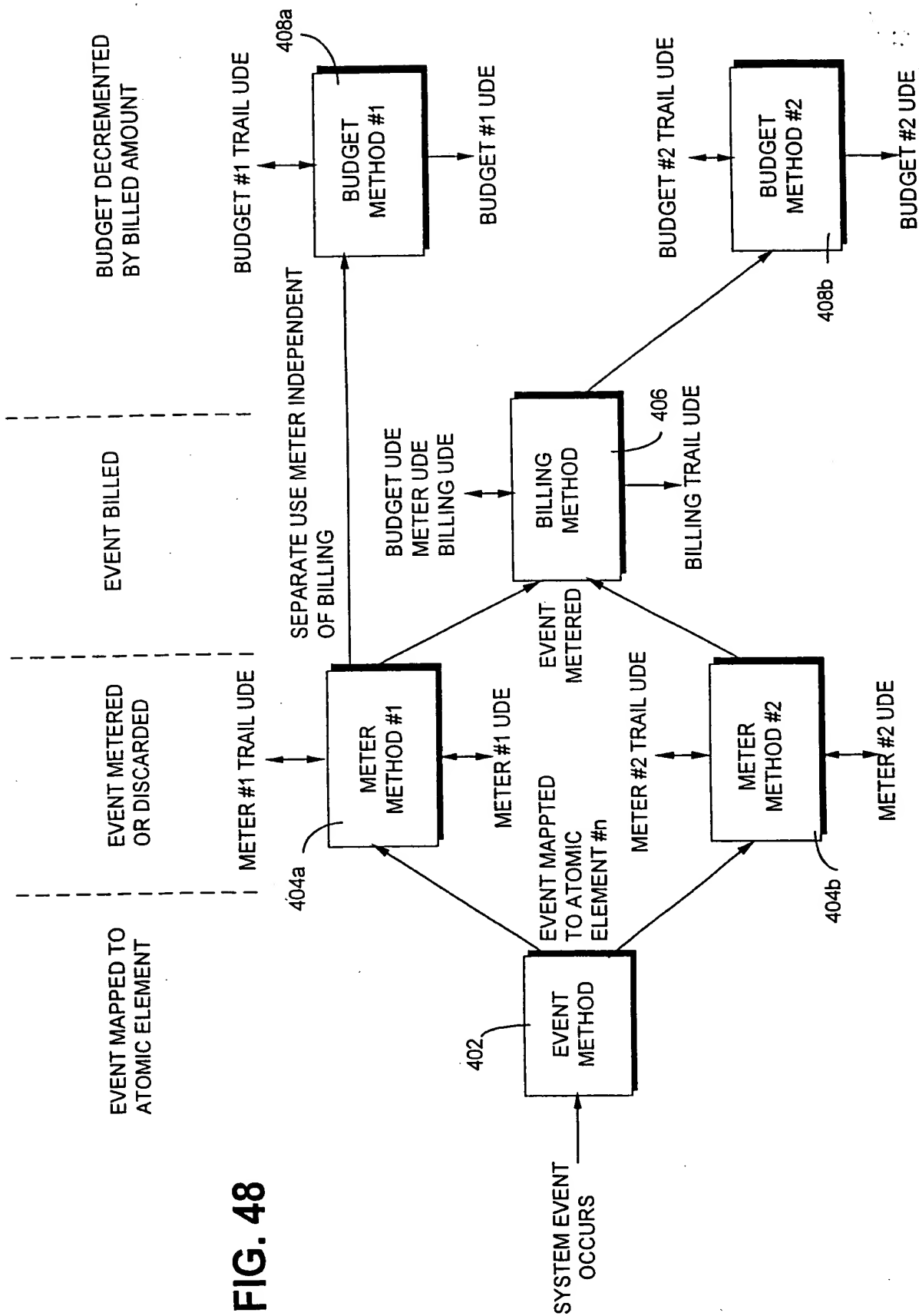


FIG. 48



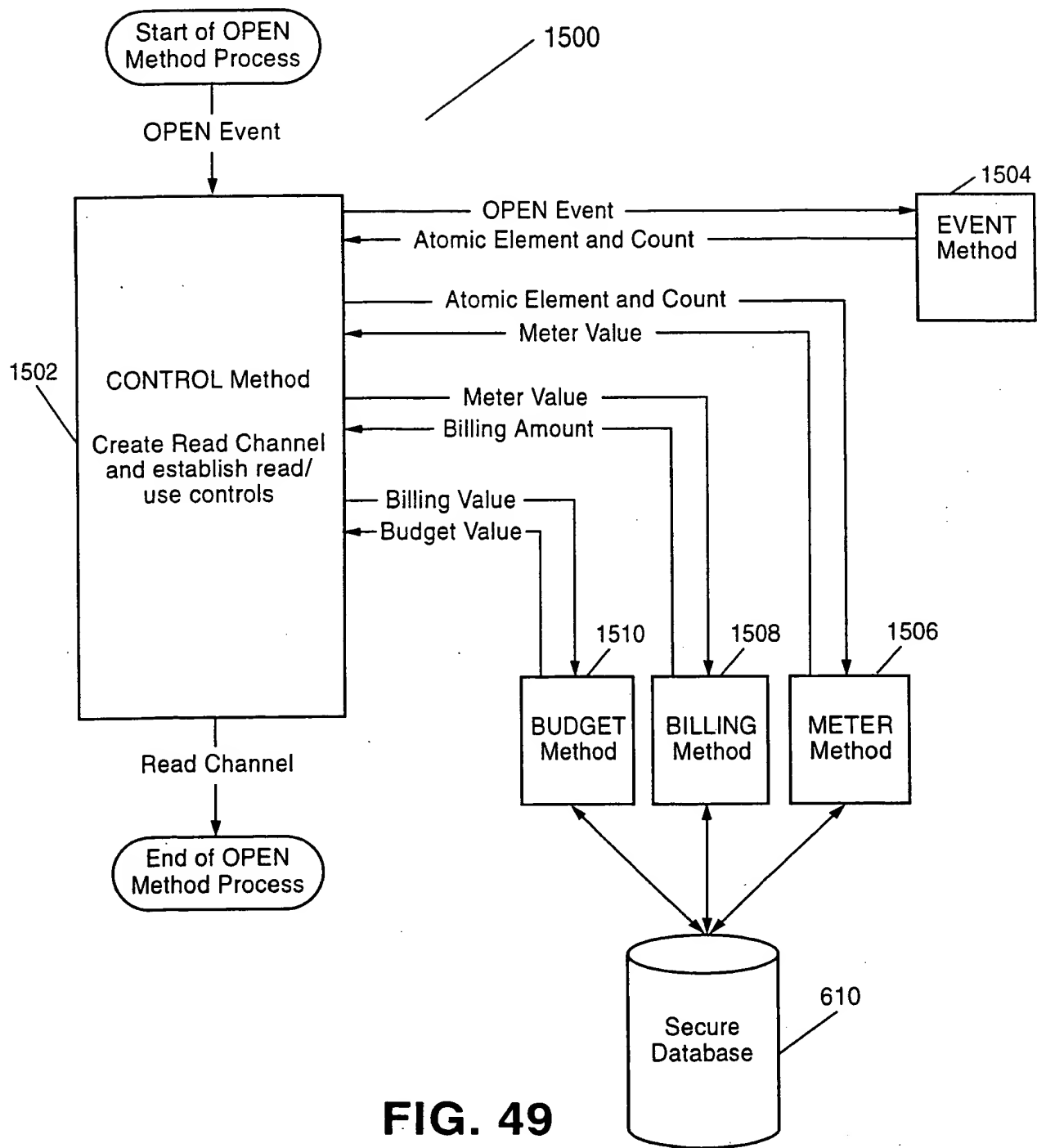


FIG. 49

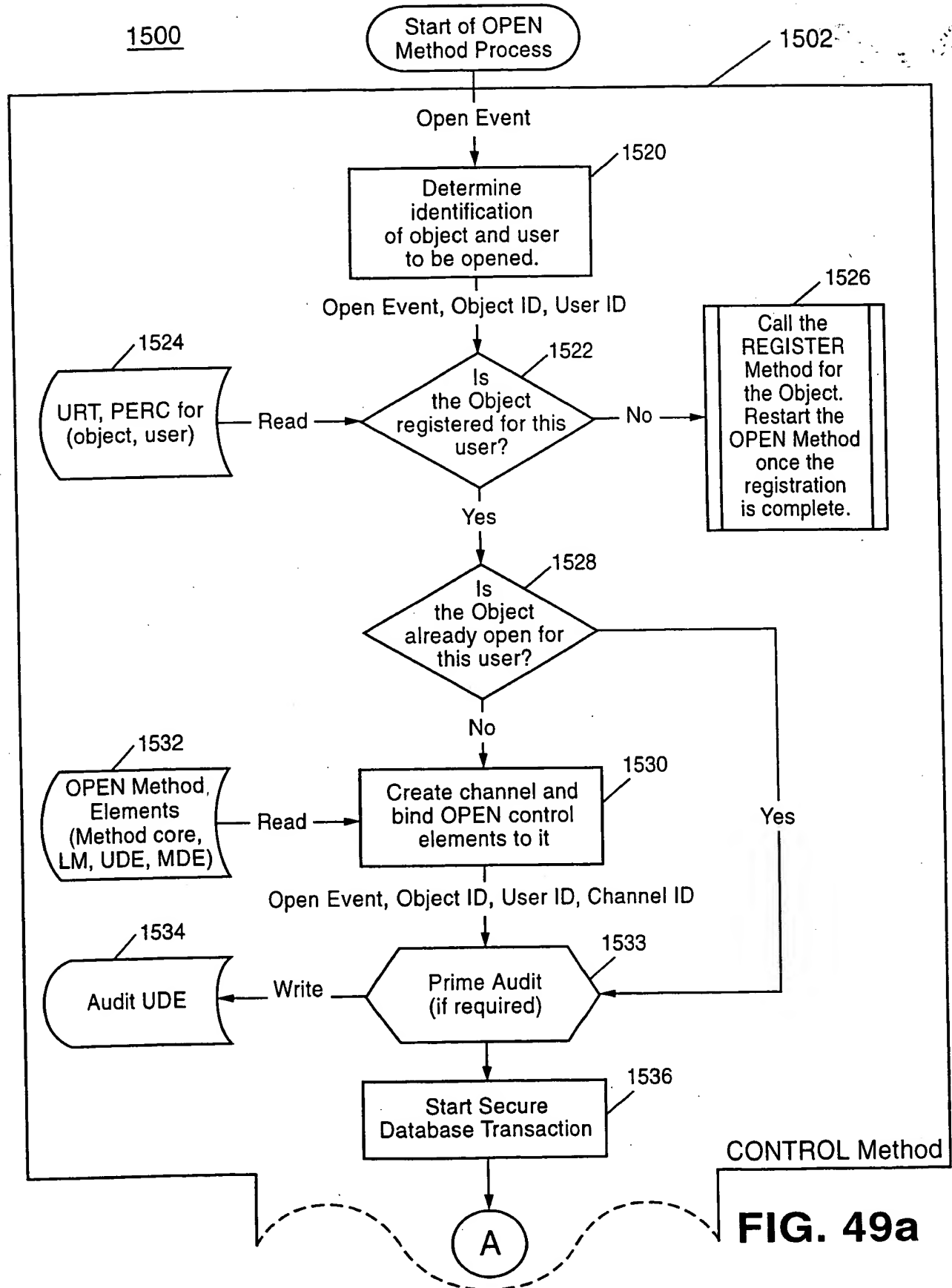
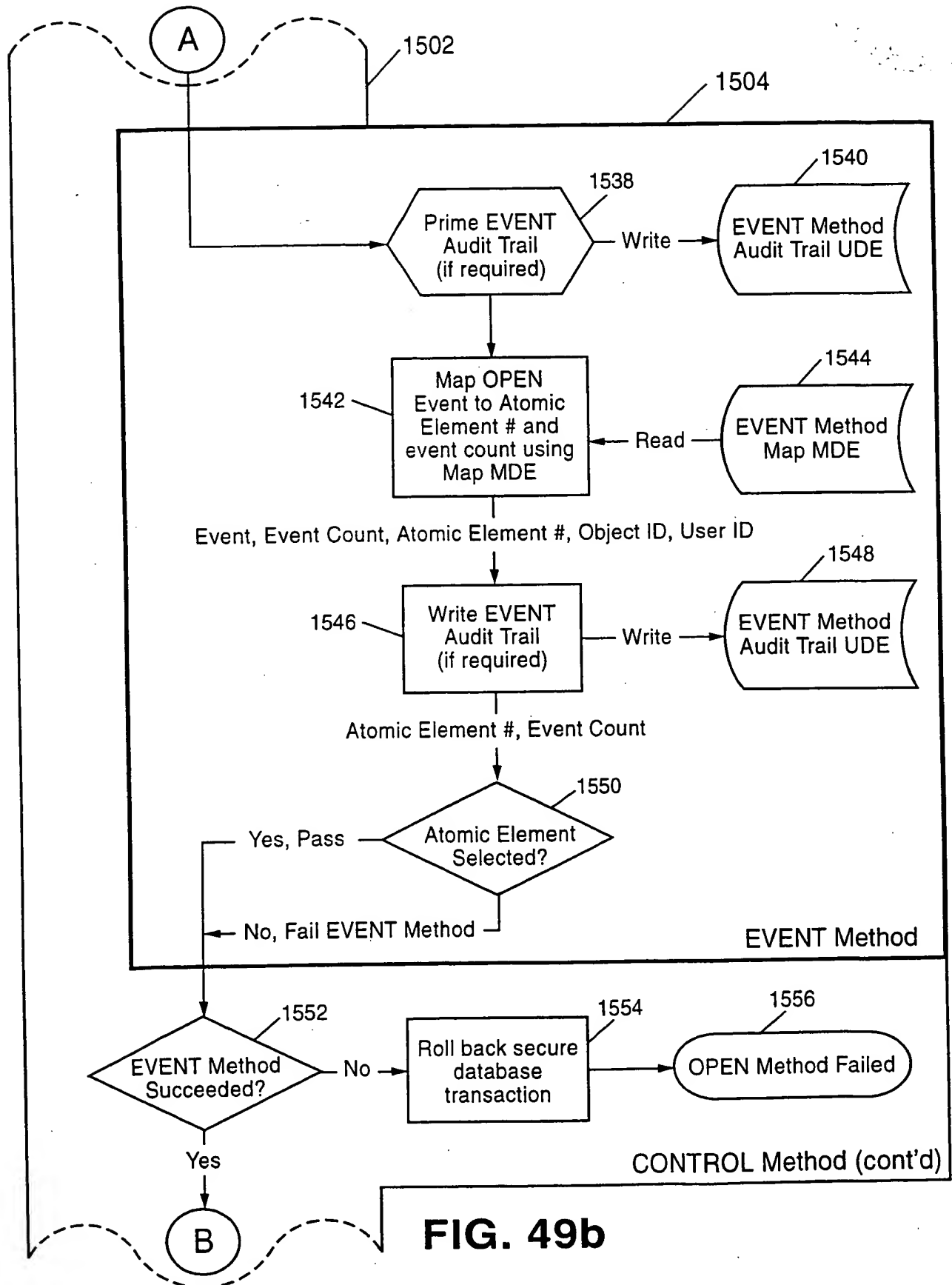


FIG. 49a



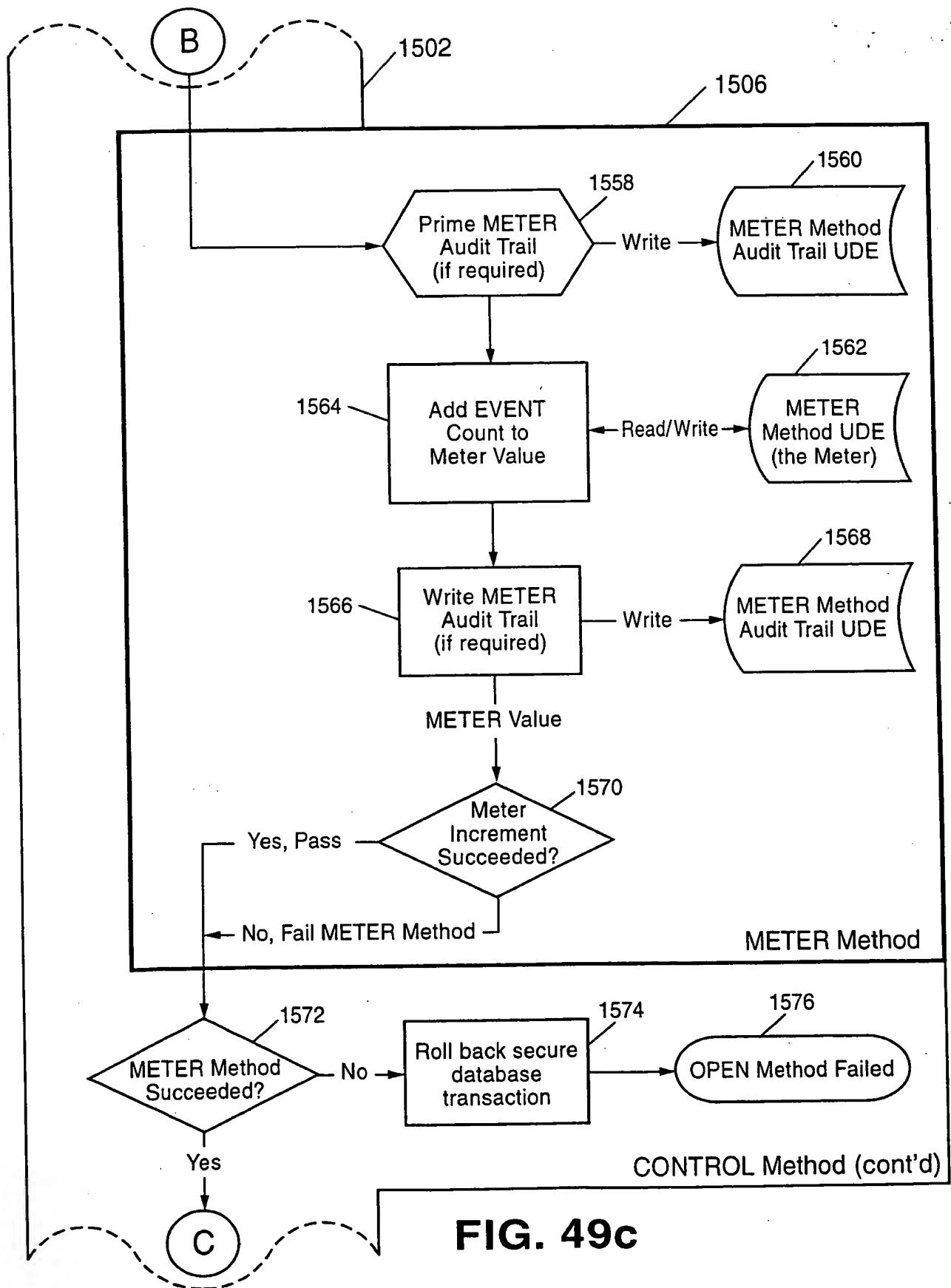


FIG. 49c

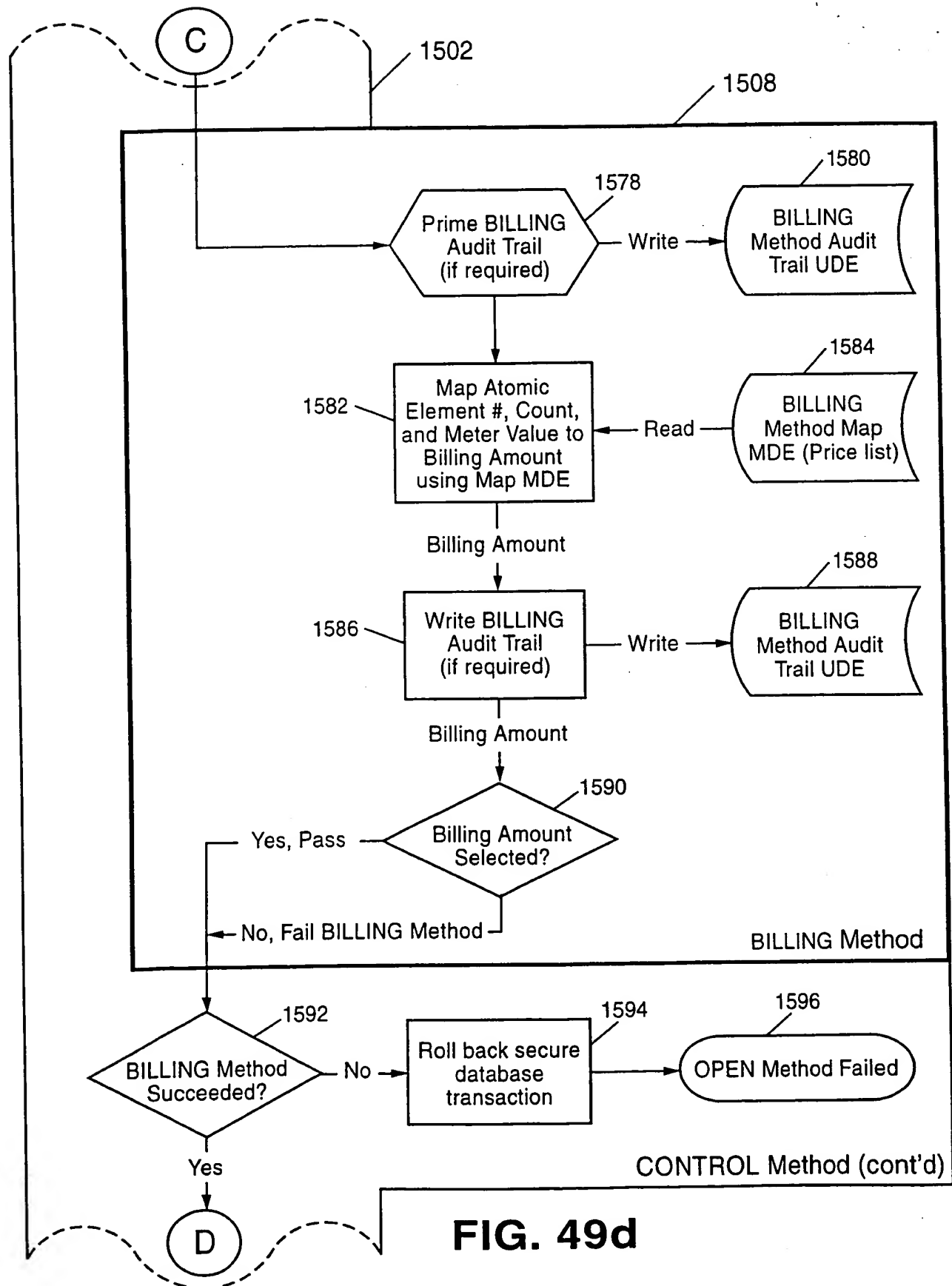


FIG. 49d

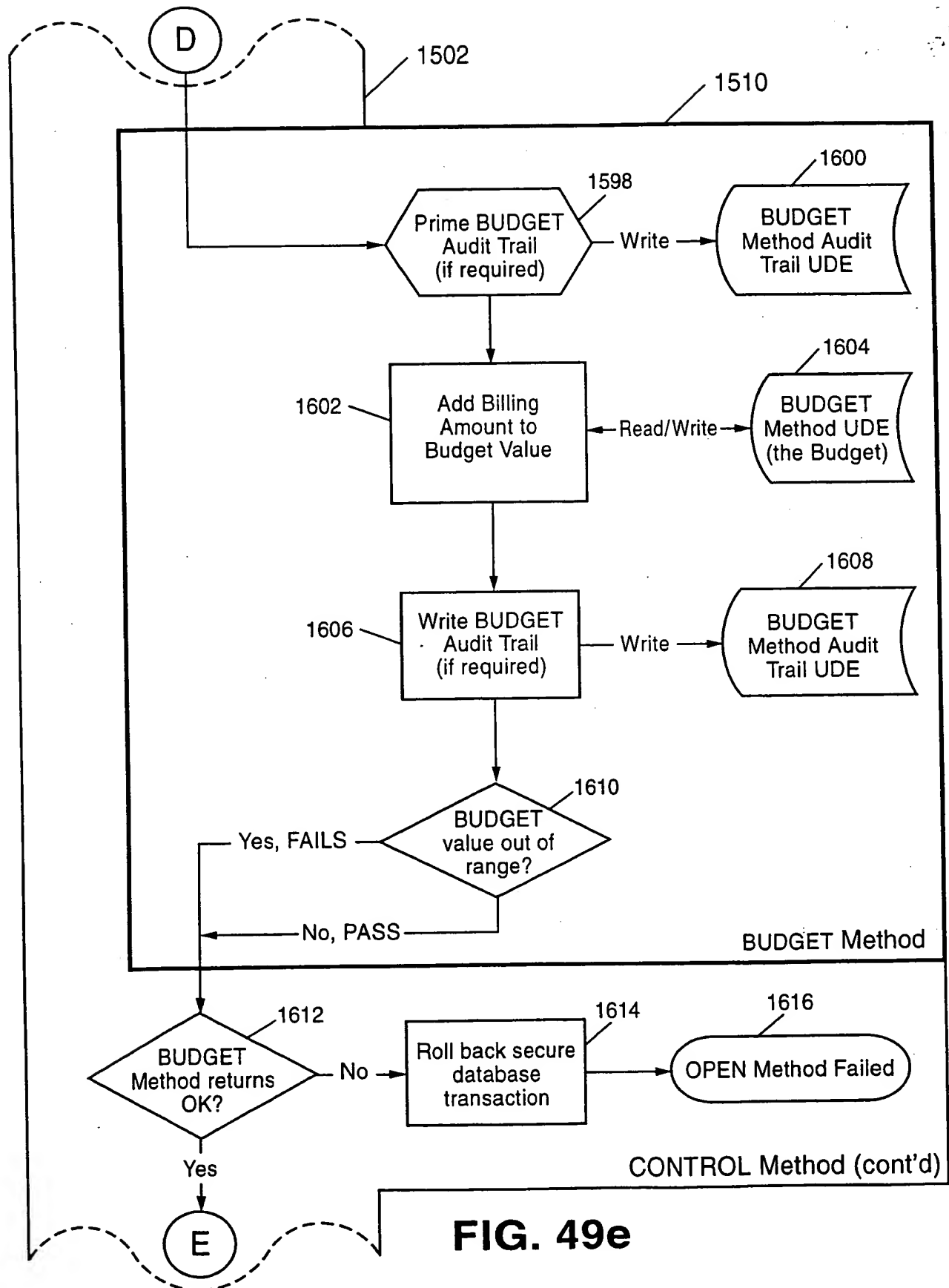
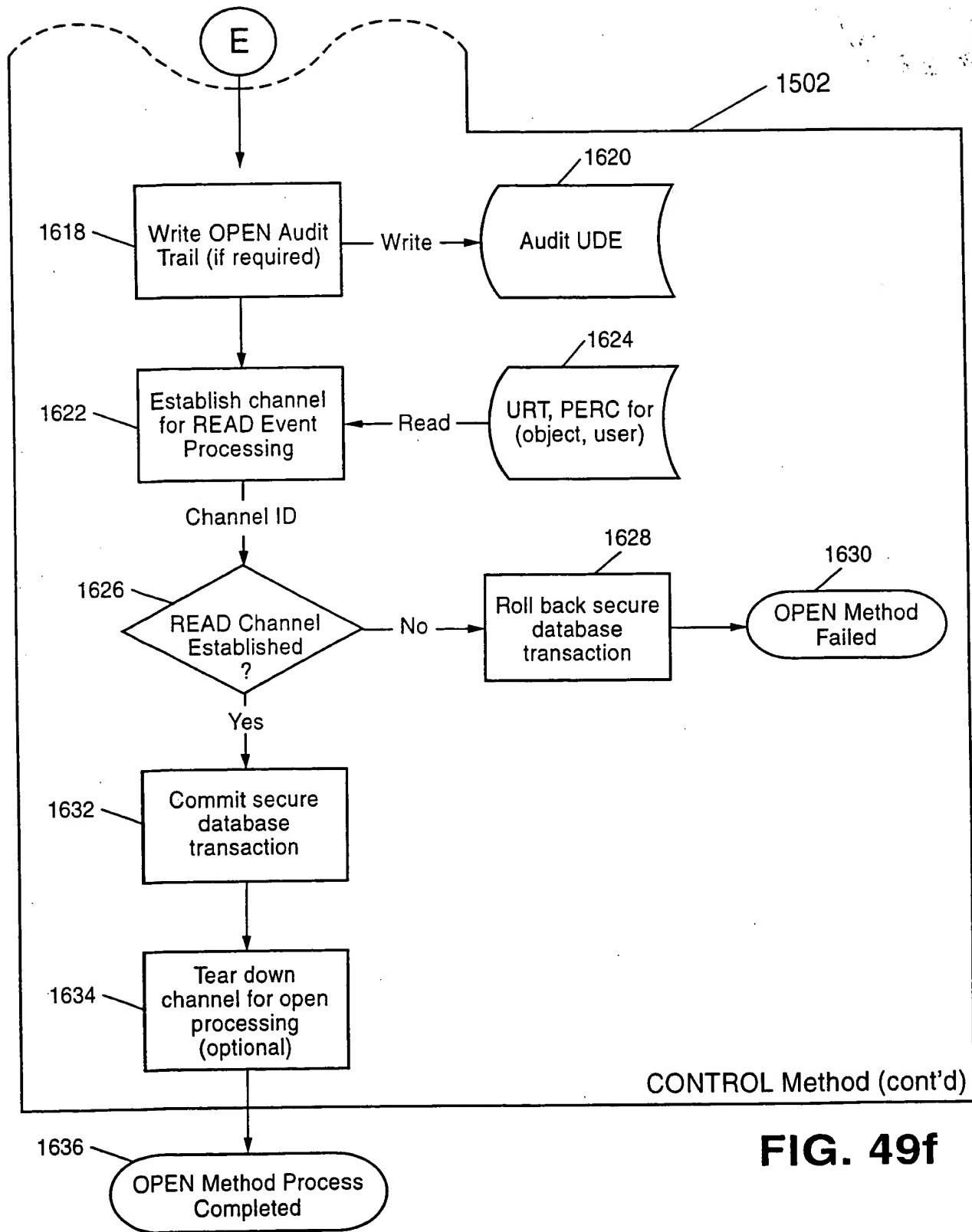


FIG. 49e



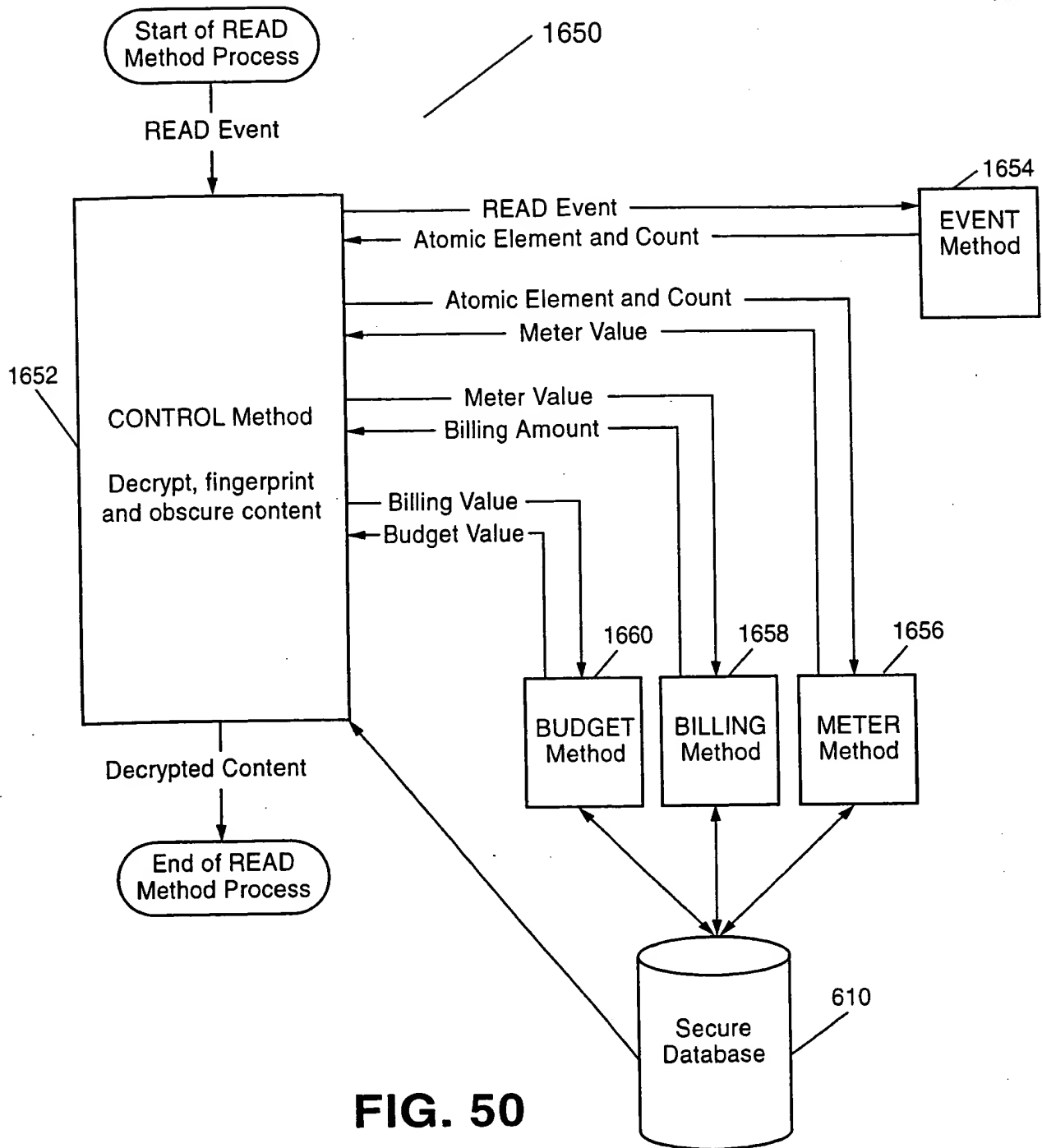
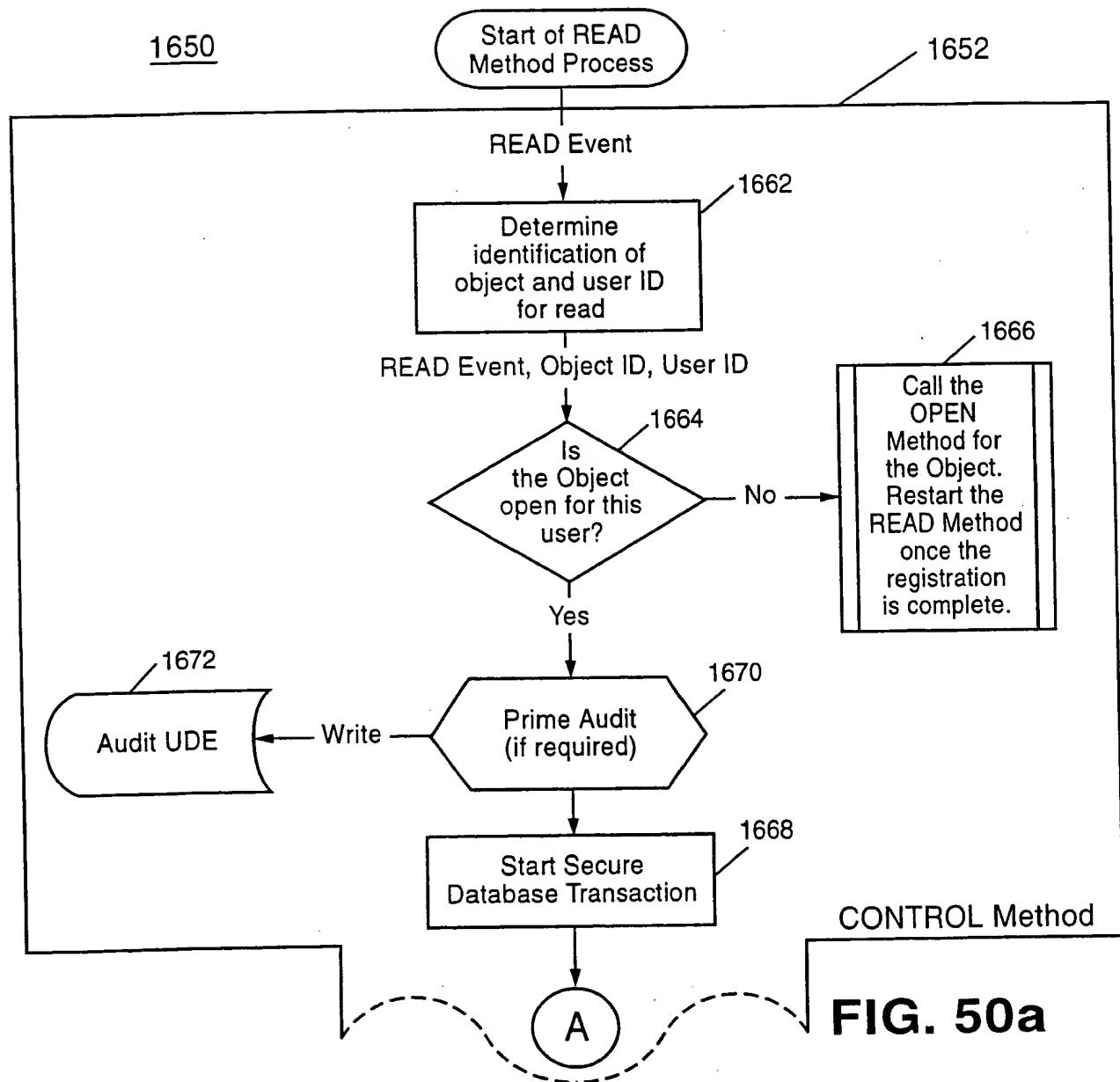
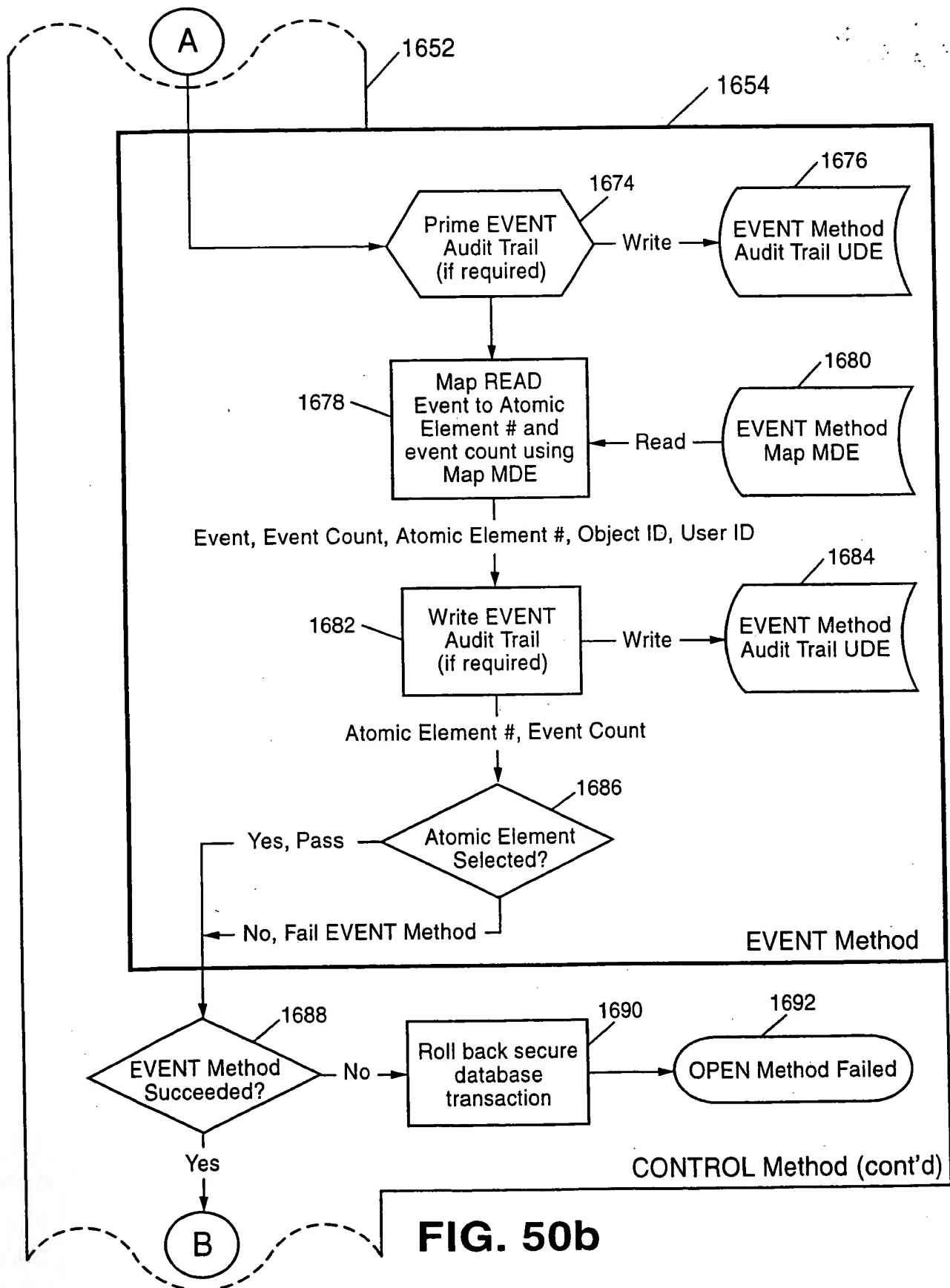
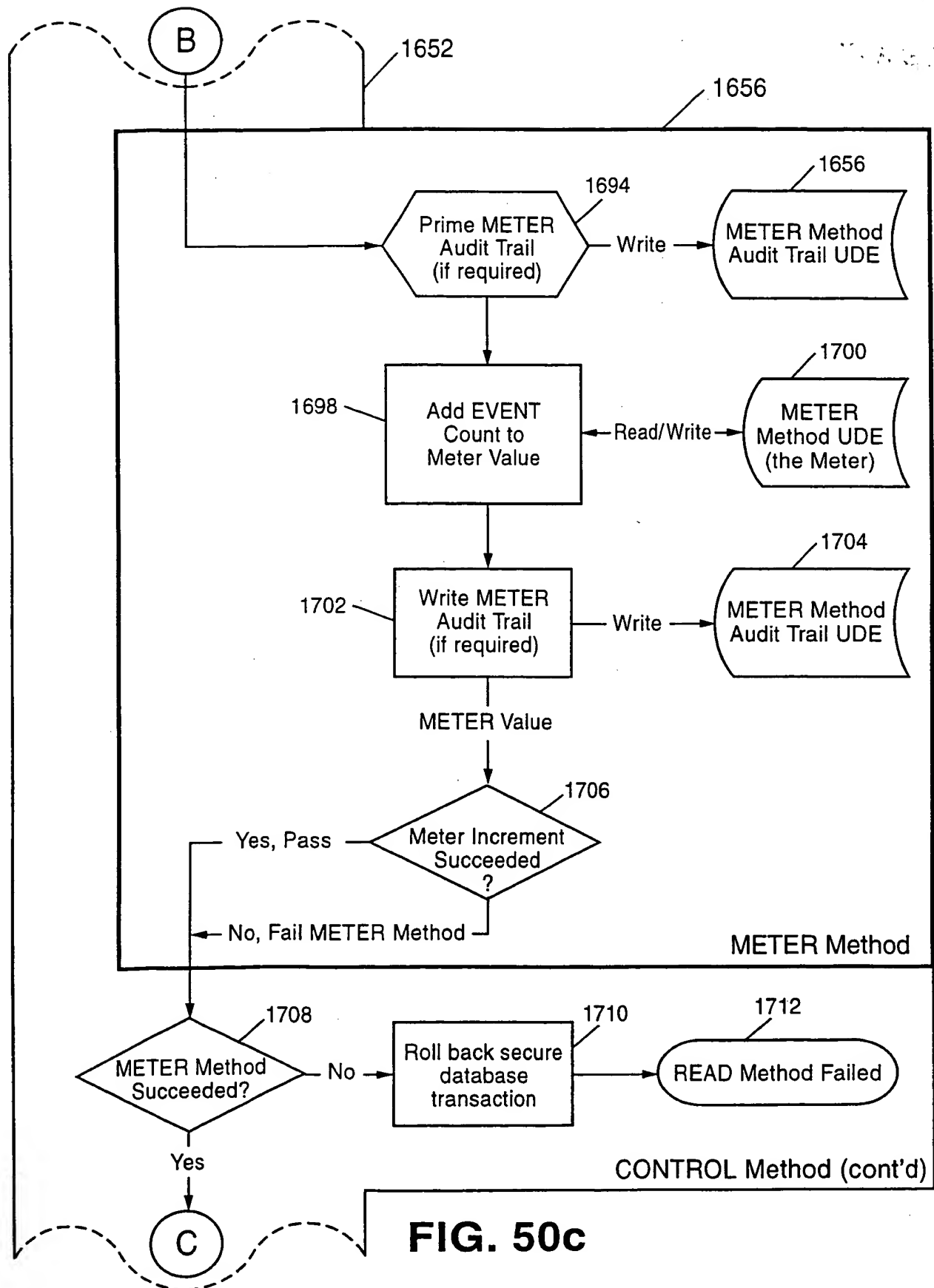
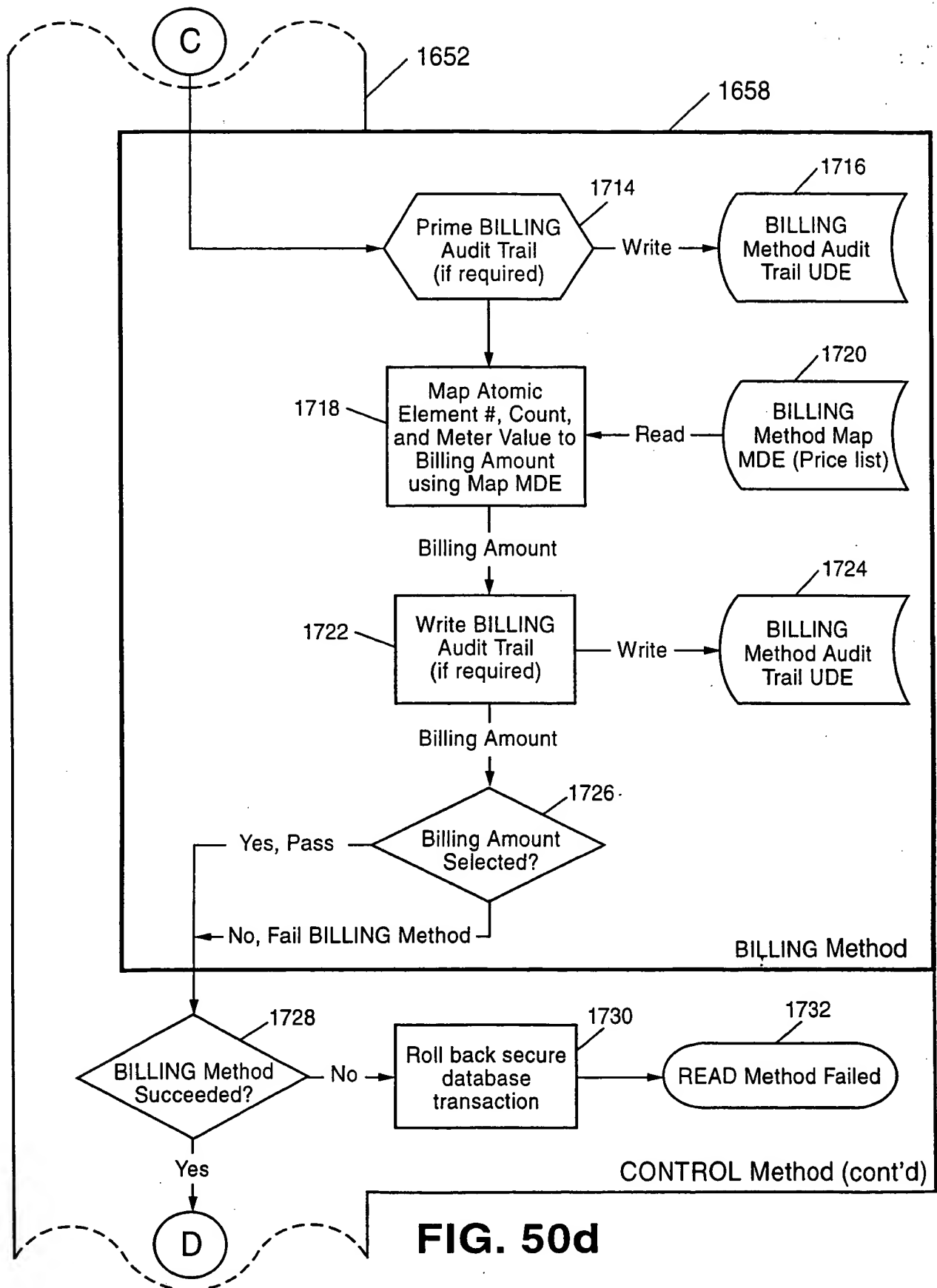


FIG. 50









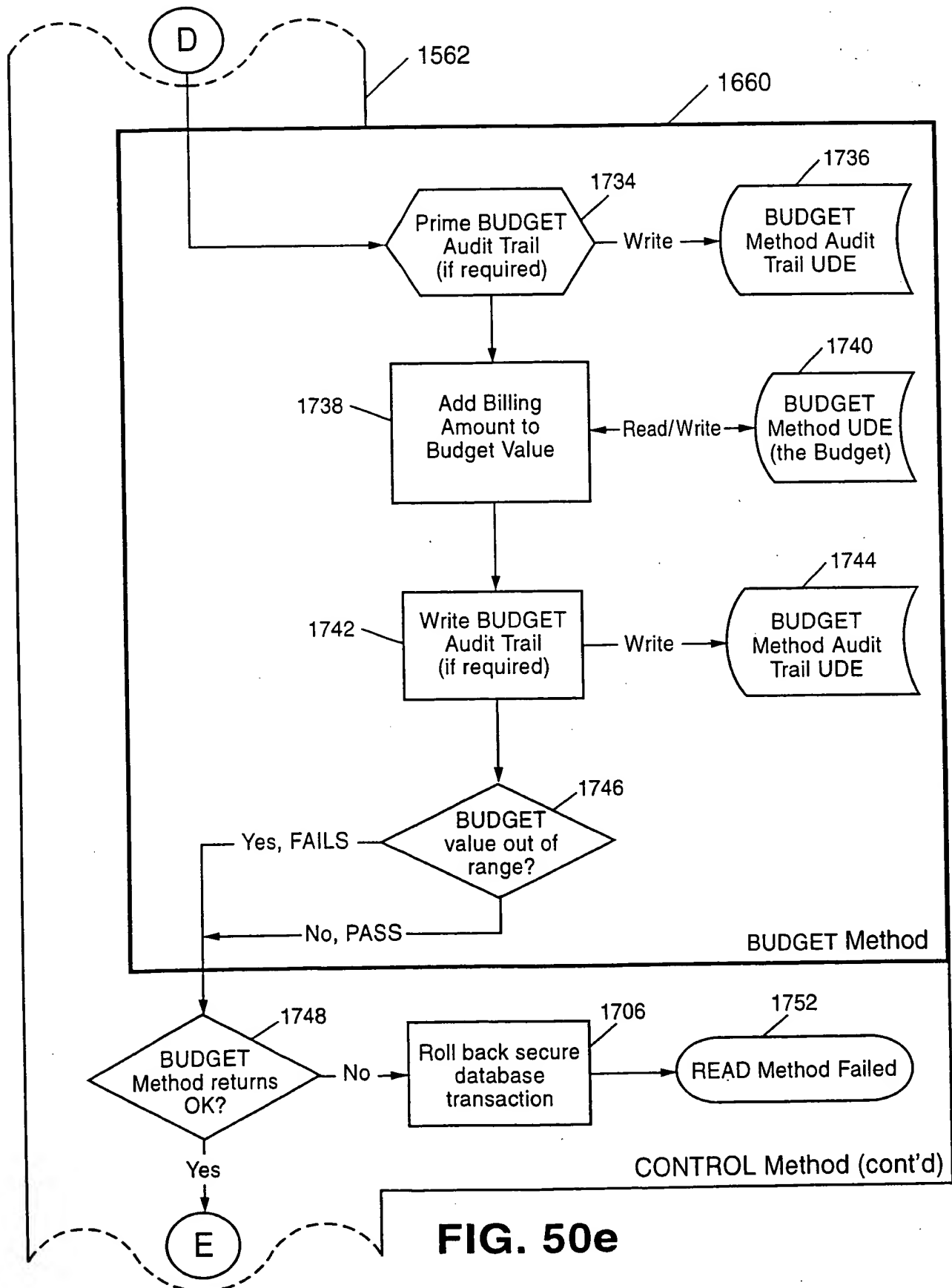
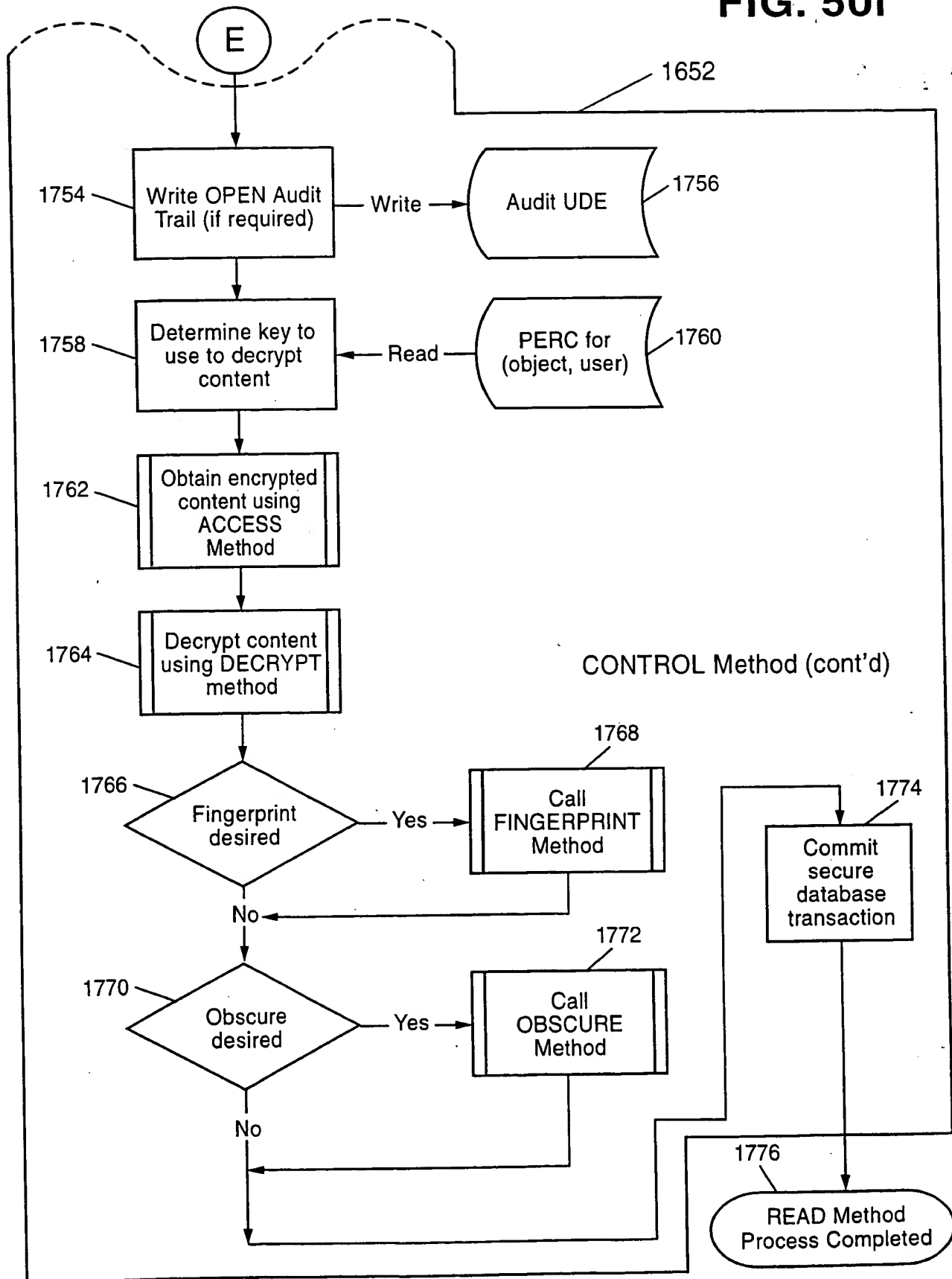


FIG. 50e

FIG. 50f



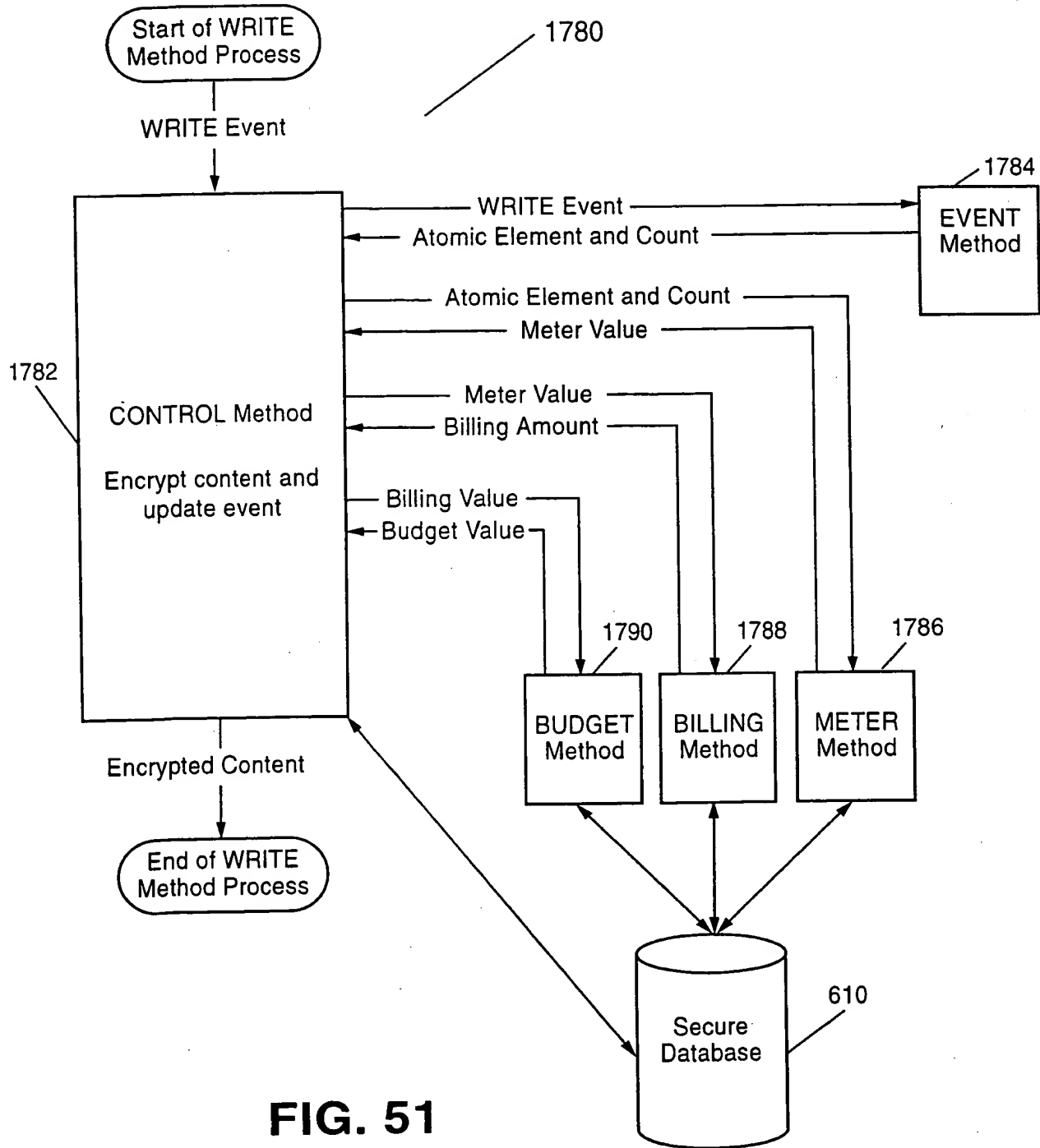


FIG. 51

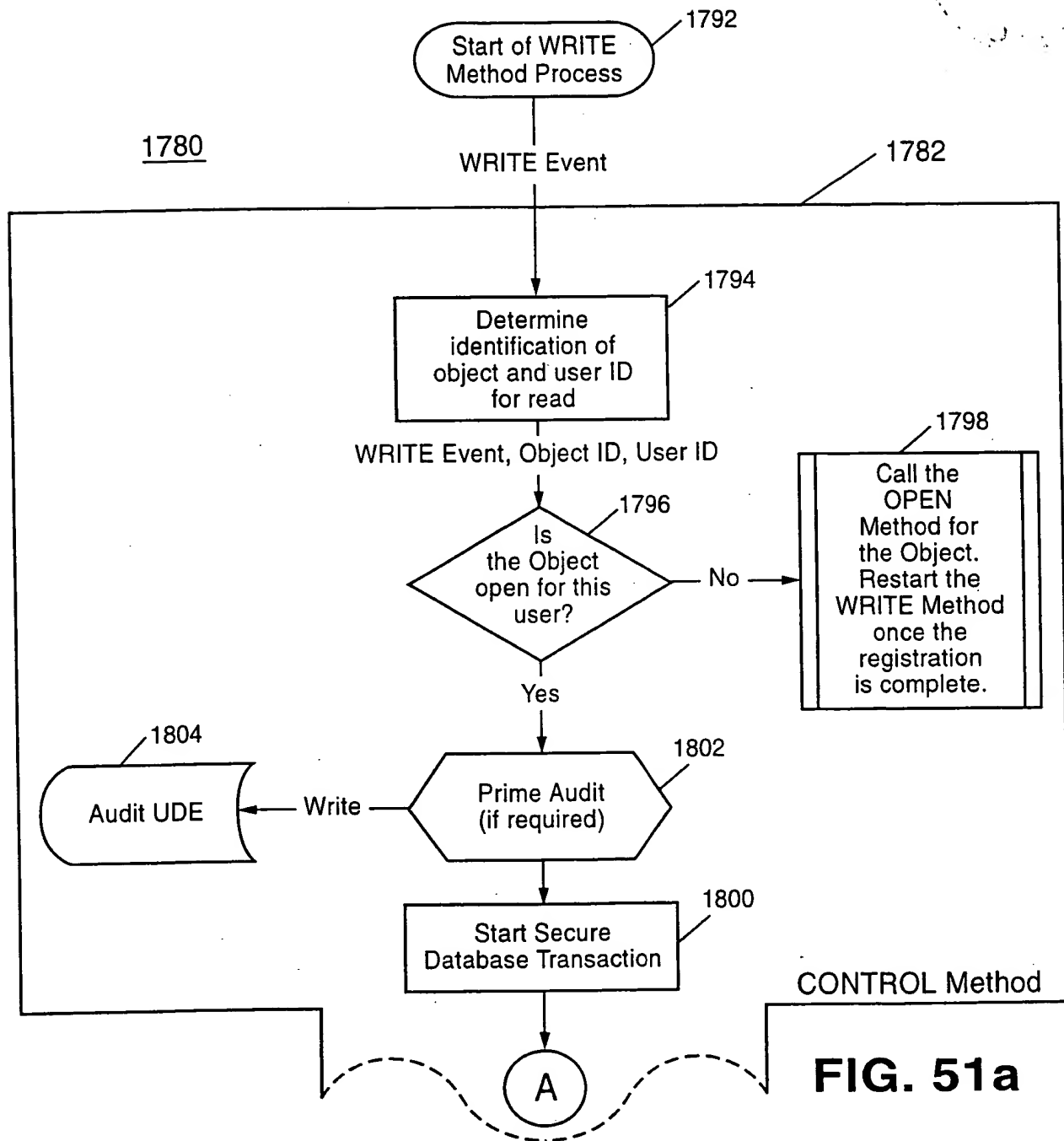


FIG. 51a

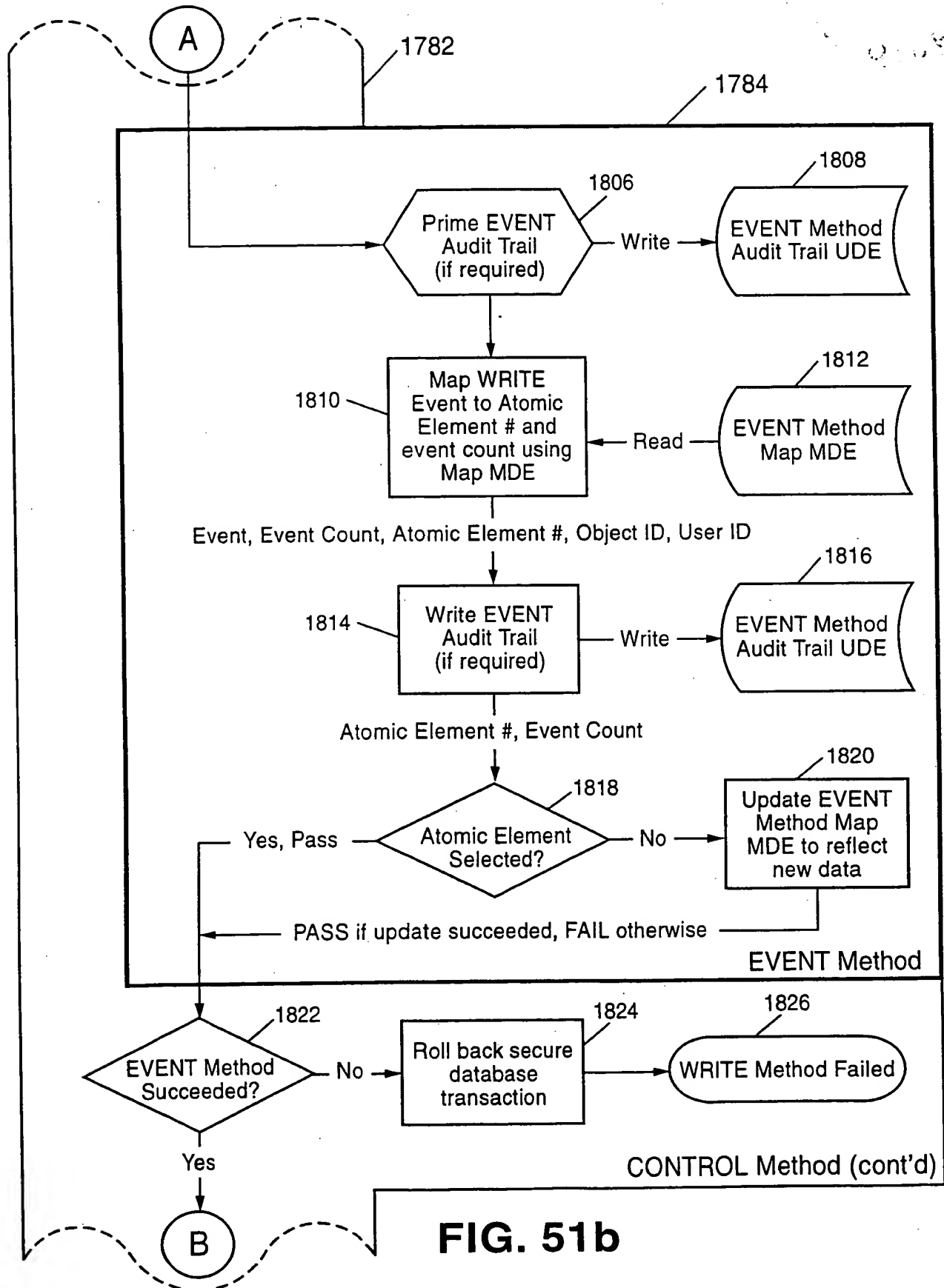


FIG. 51b

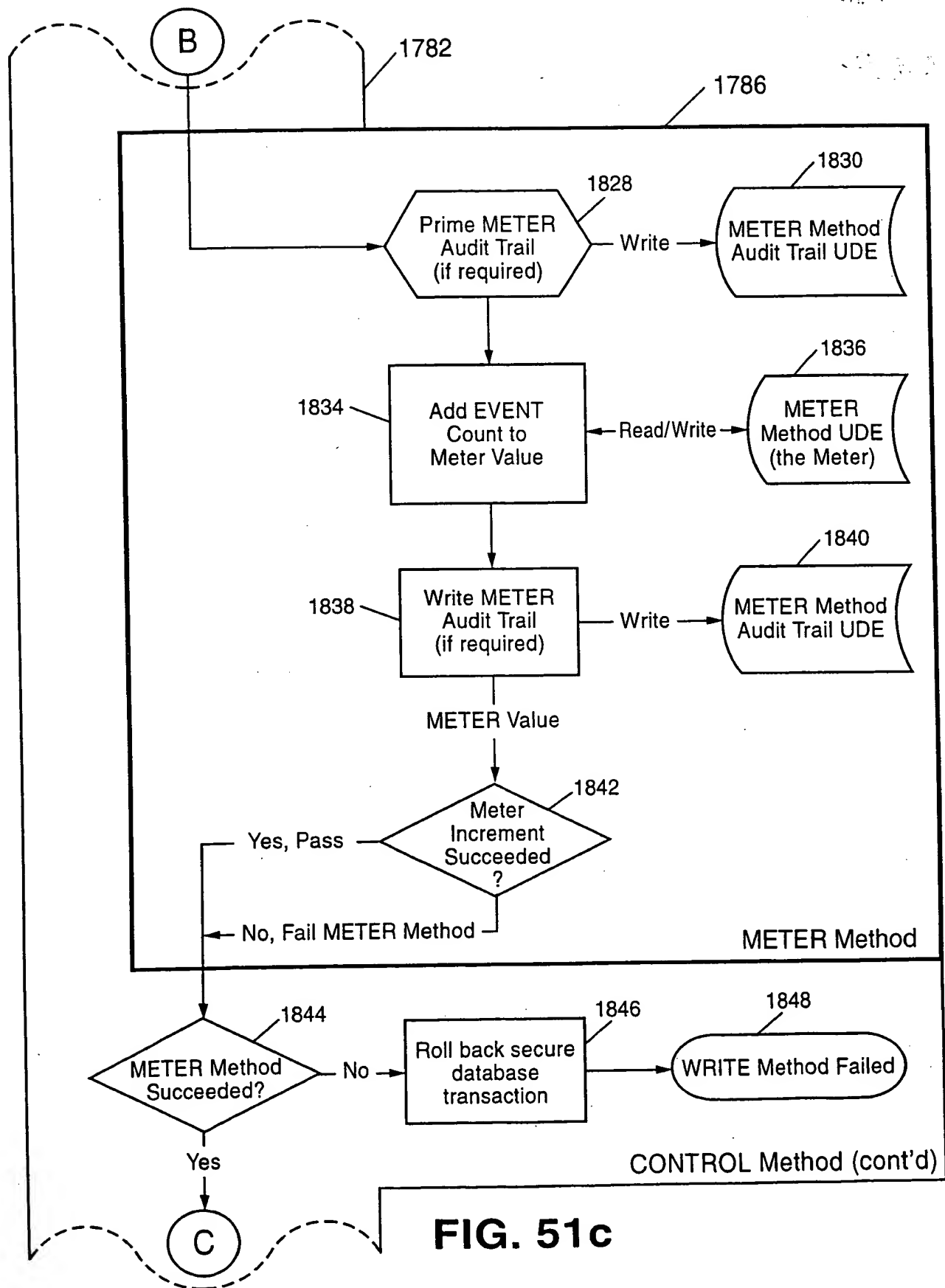


FIG. 51c

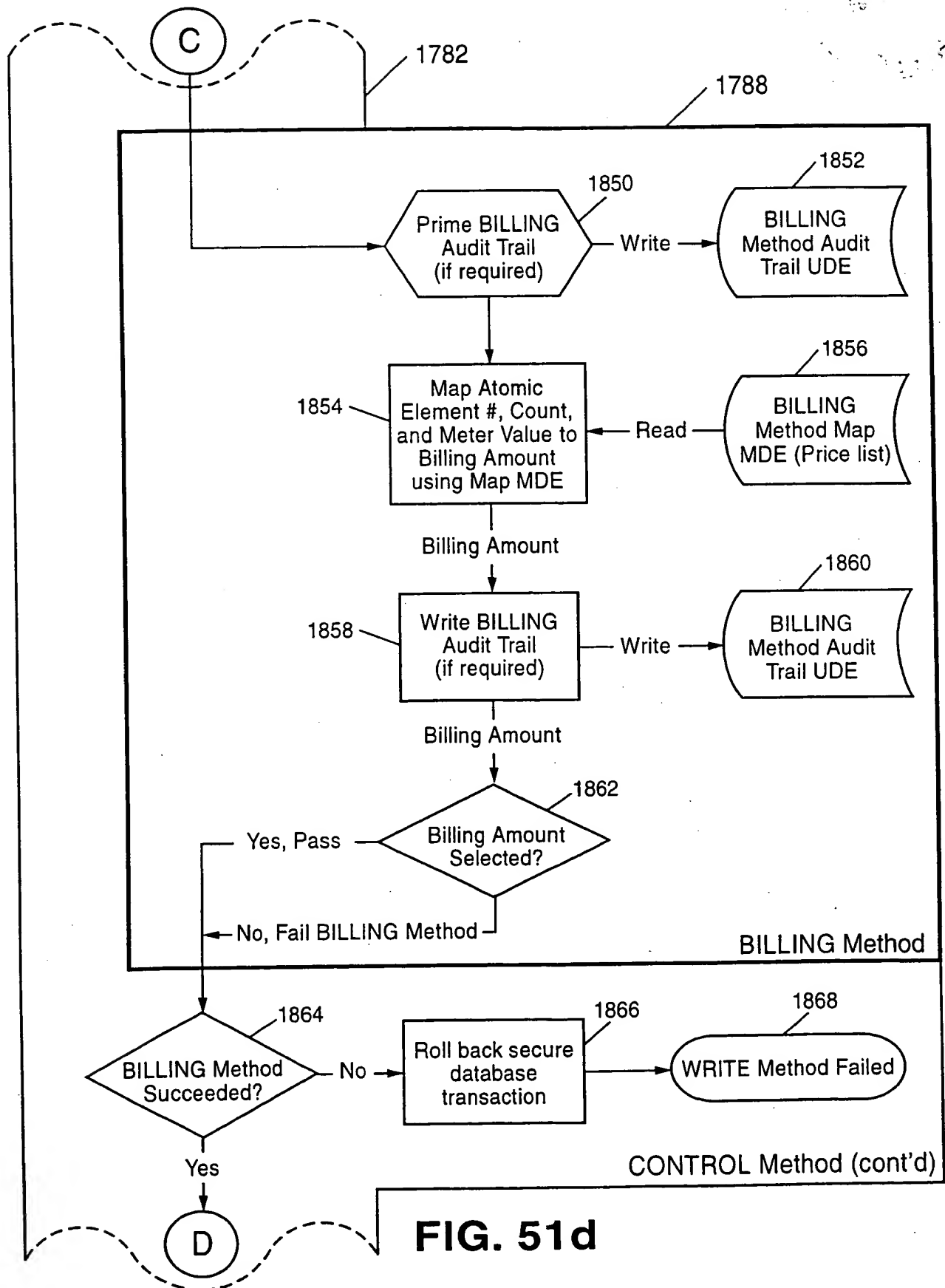
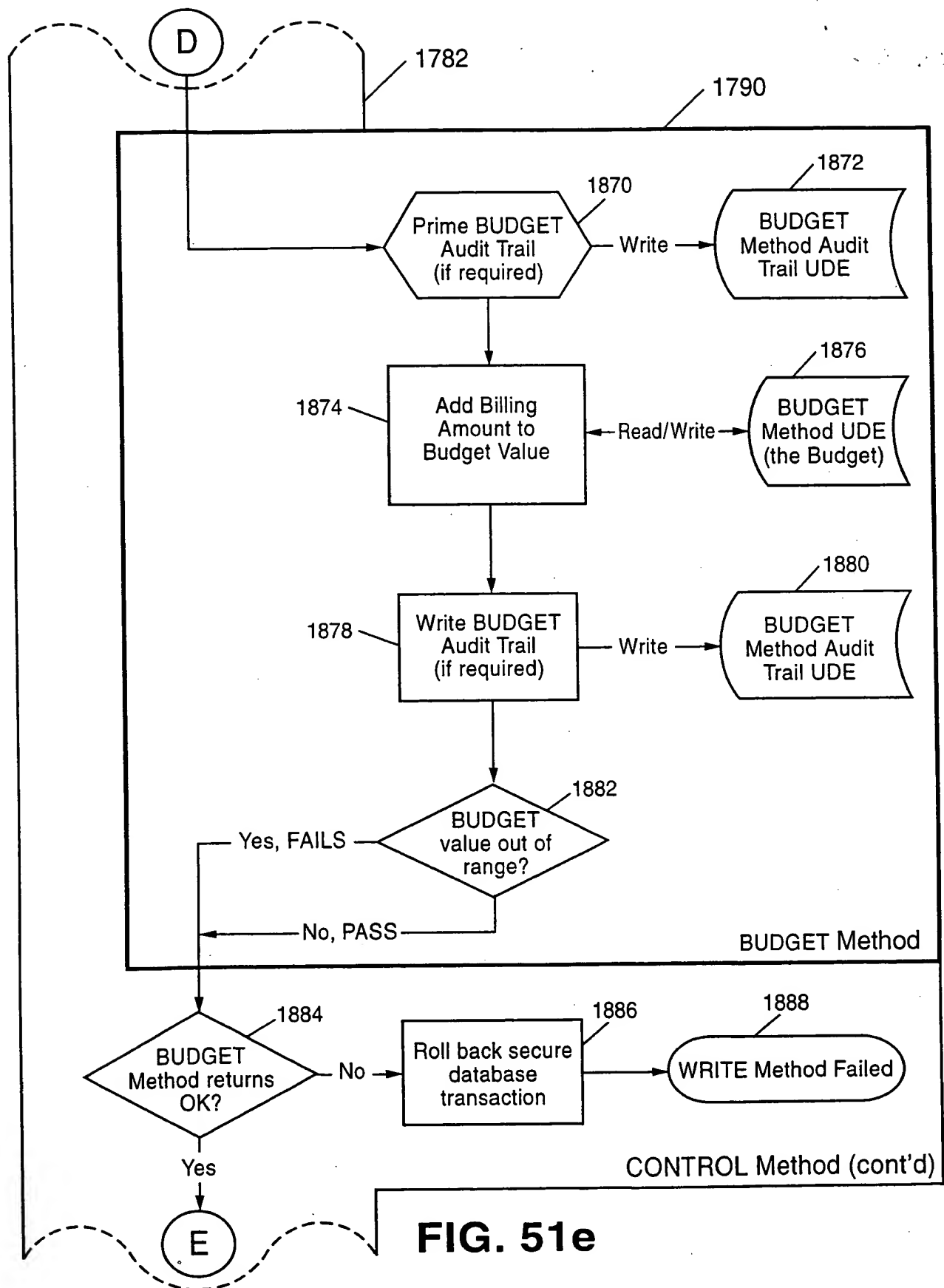
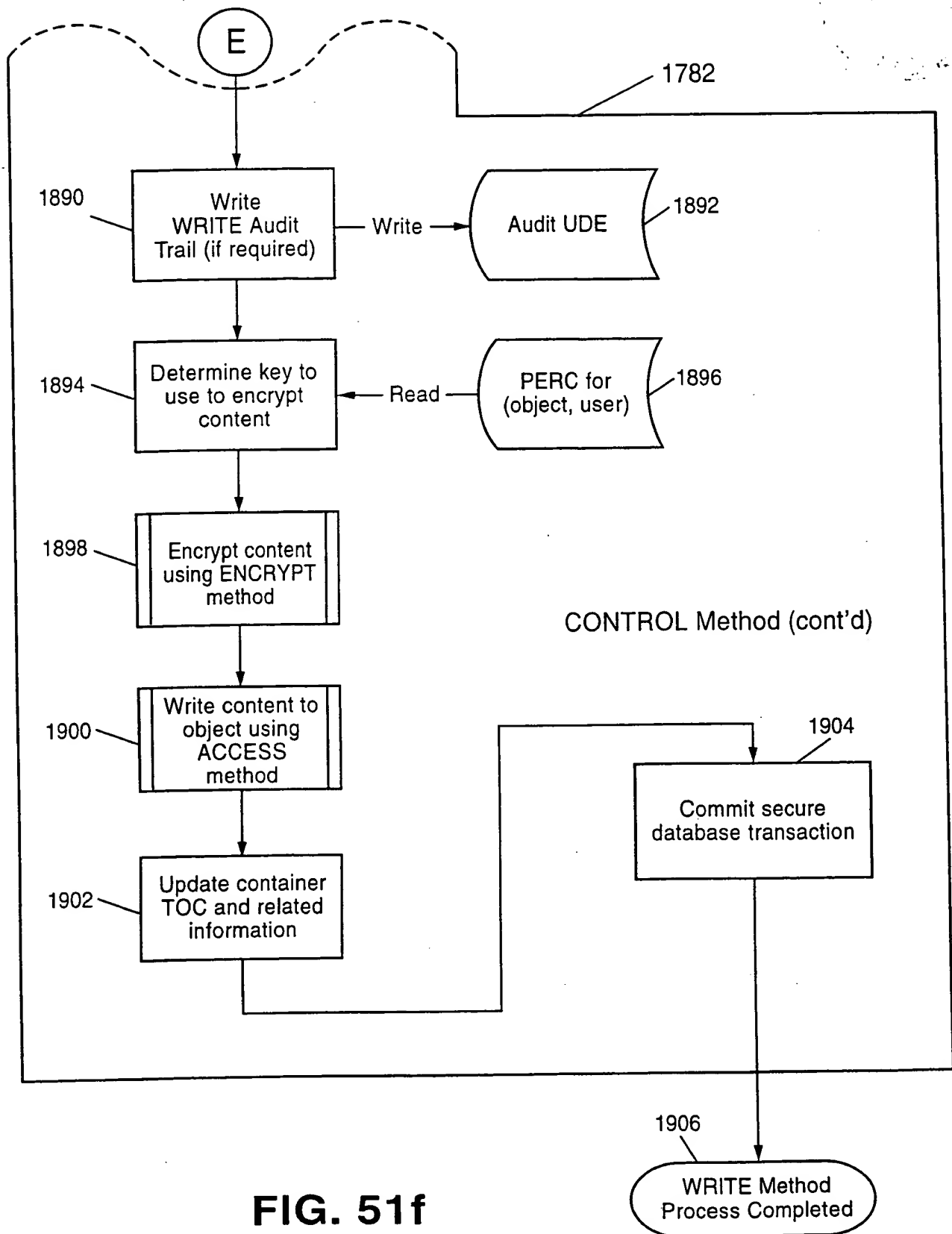


FIG. 51d





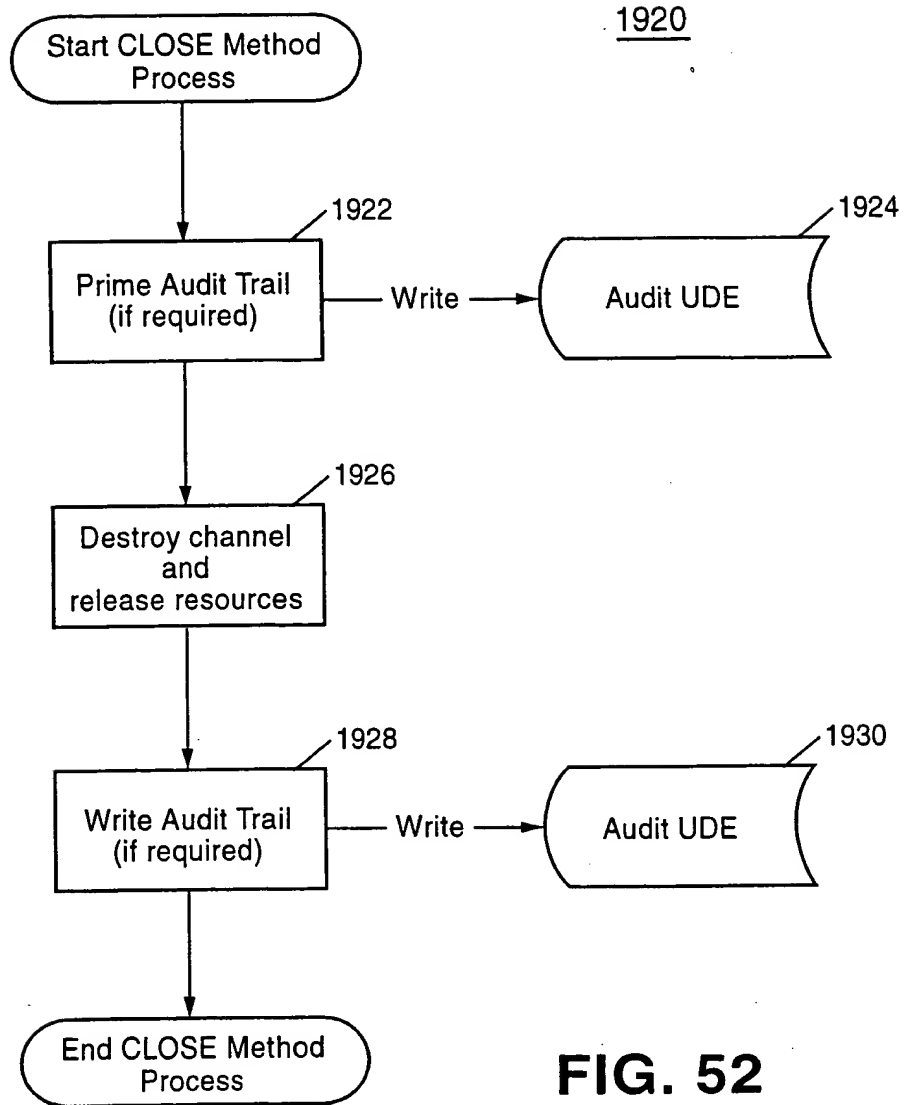


FIG. 52

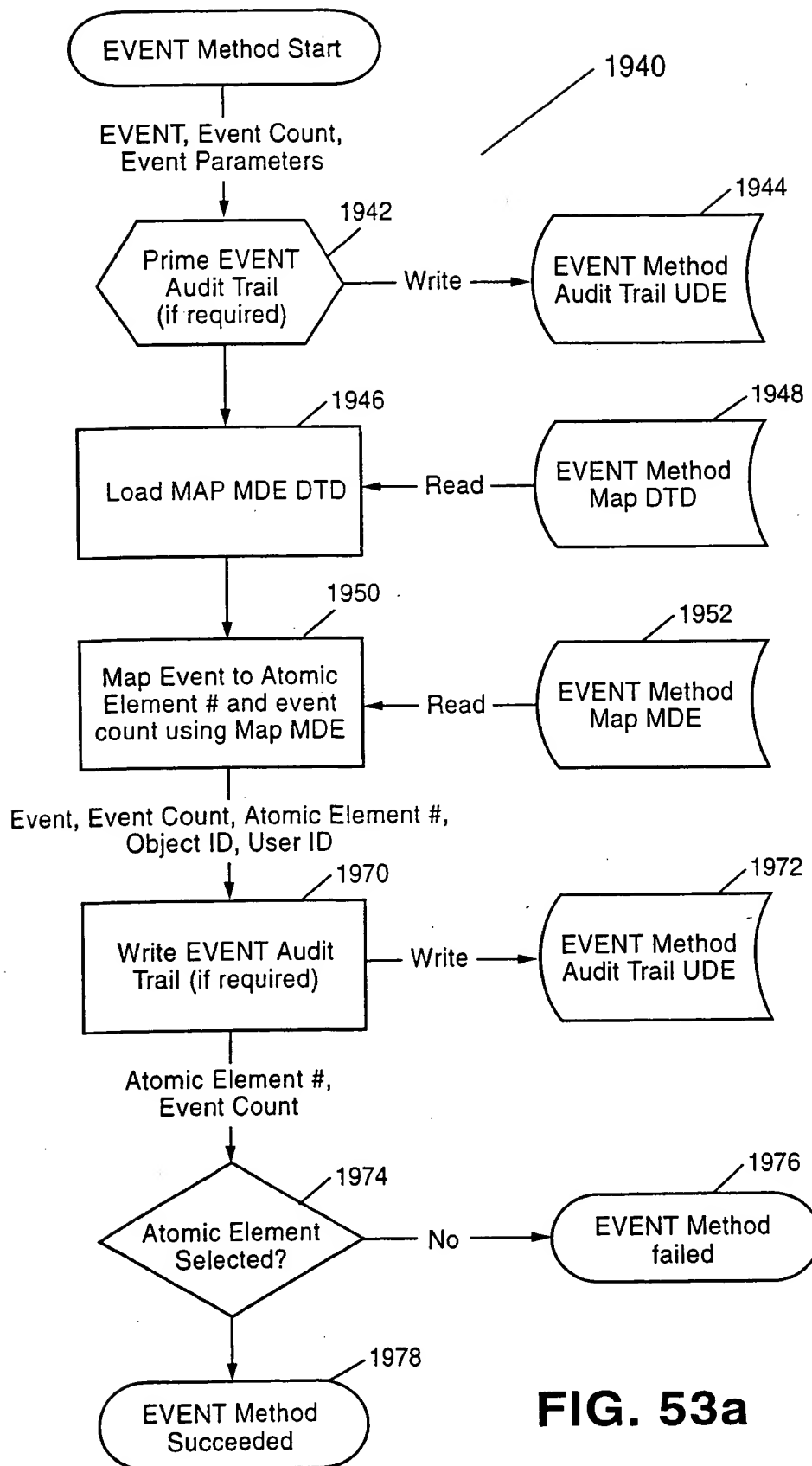


FIG. 53a

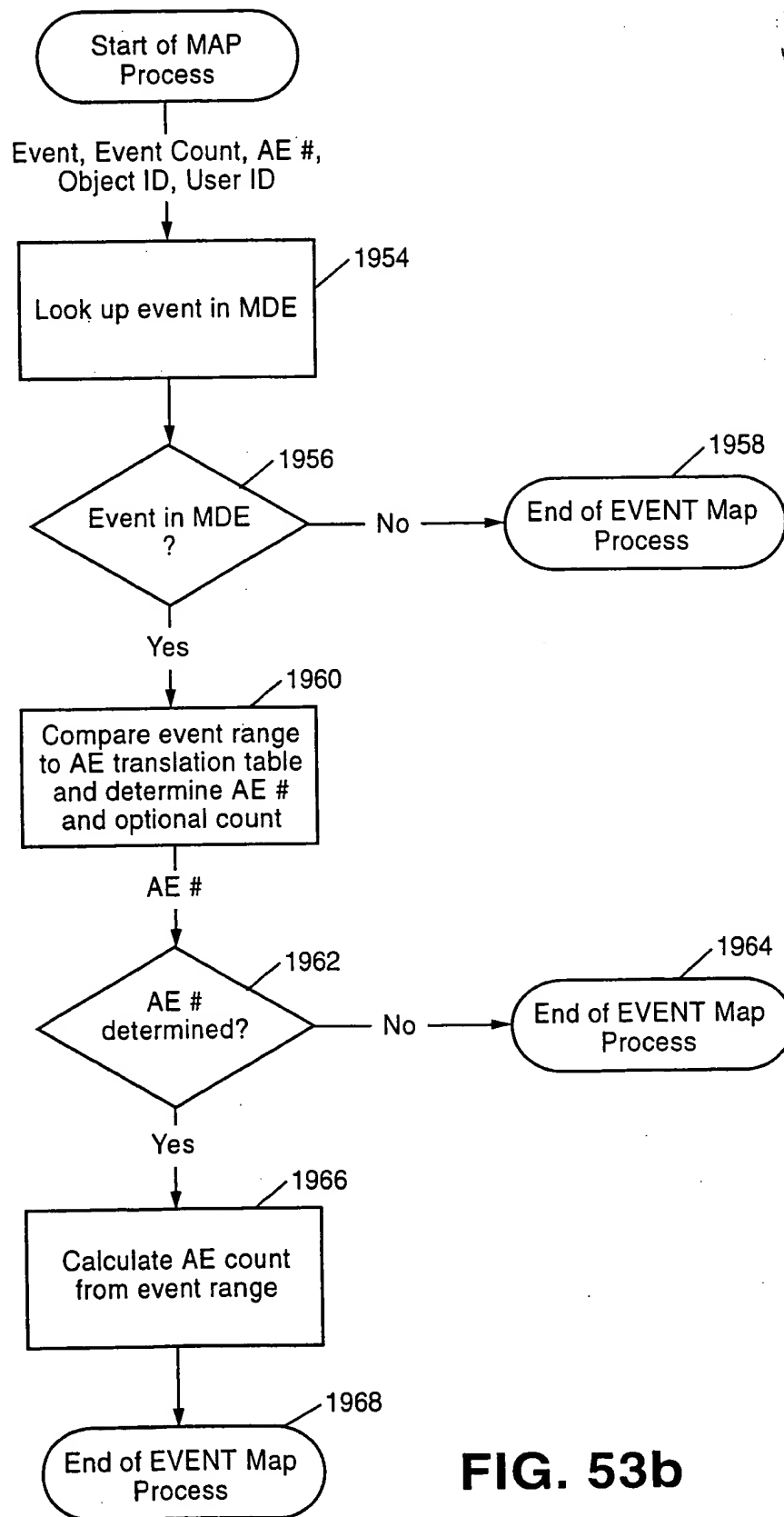


FIG. 53b

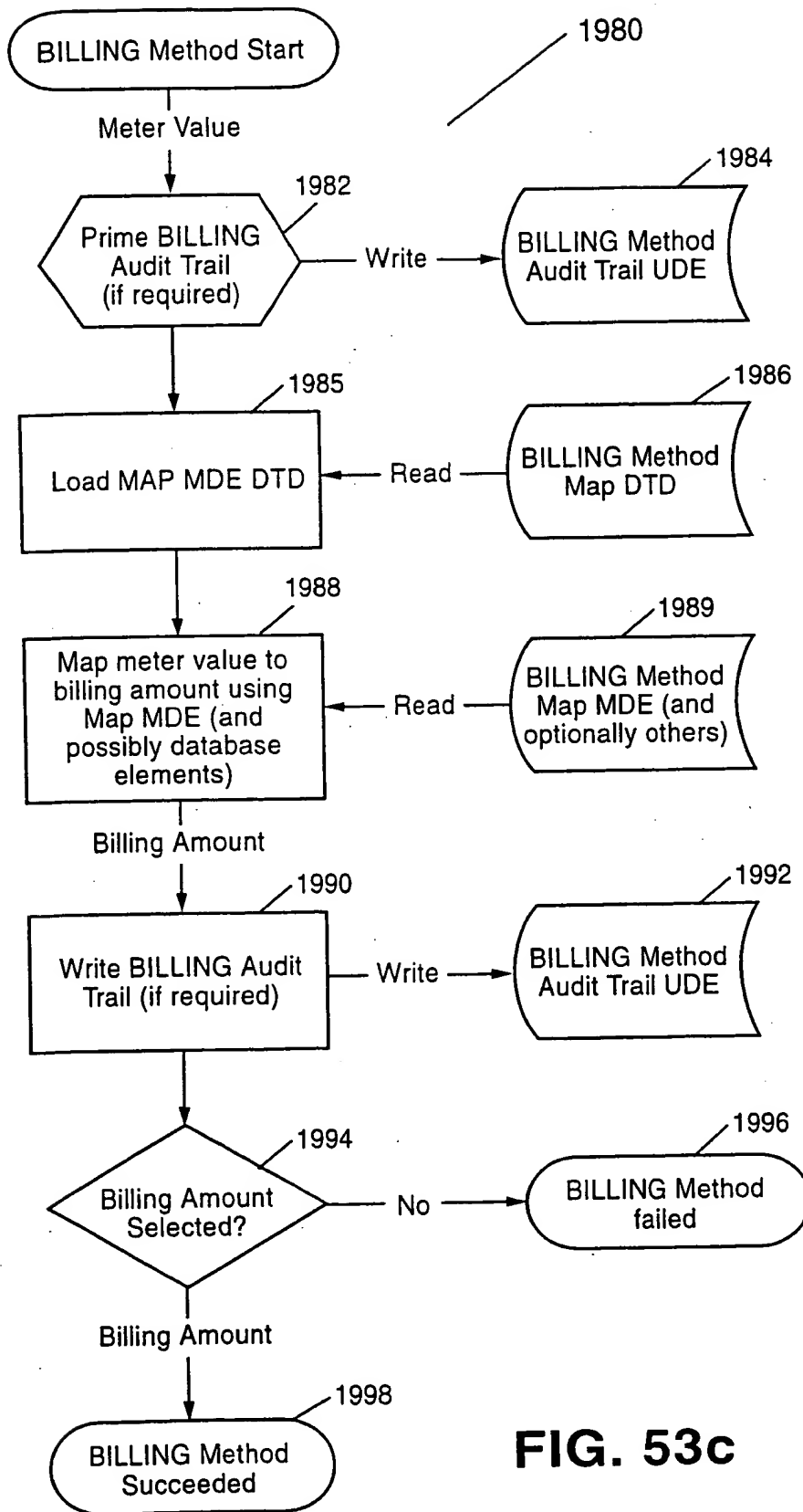


FIG. 53c

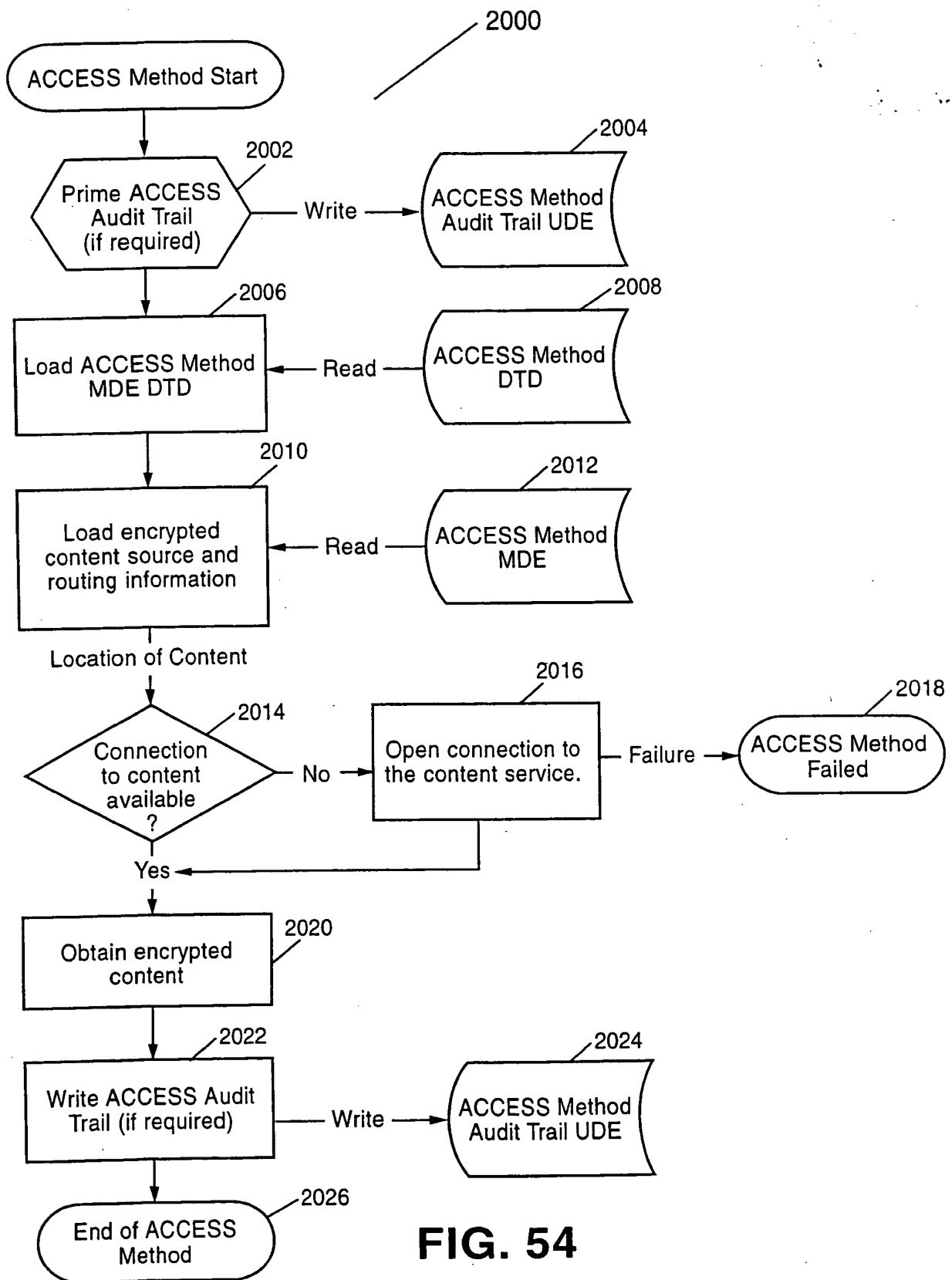


FIG. 54

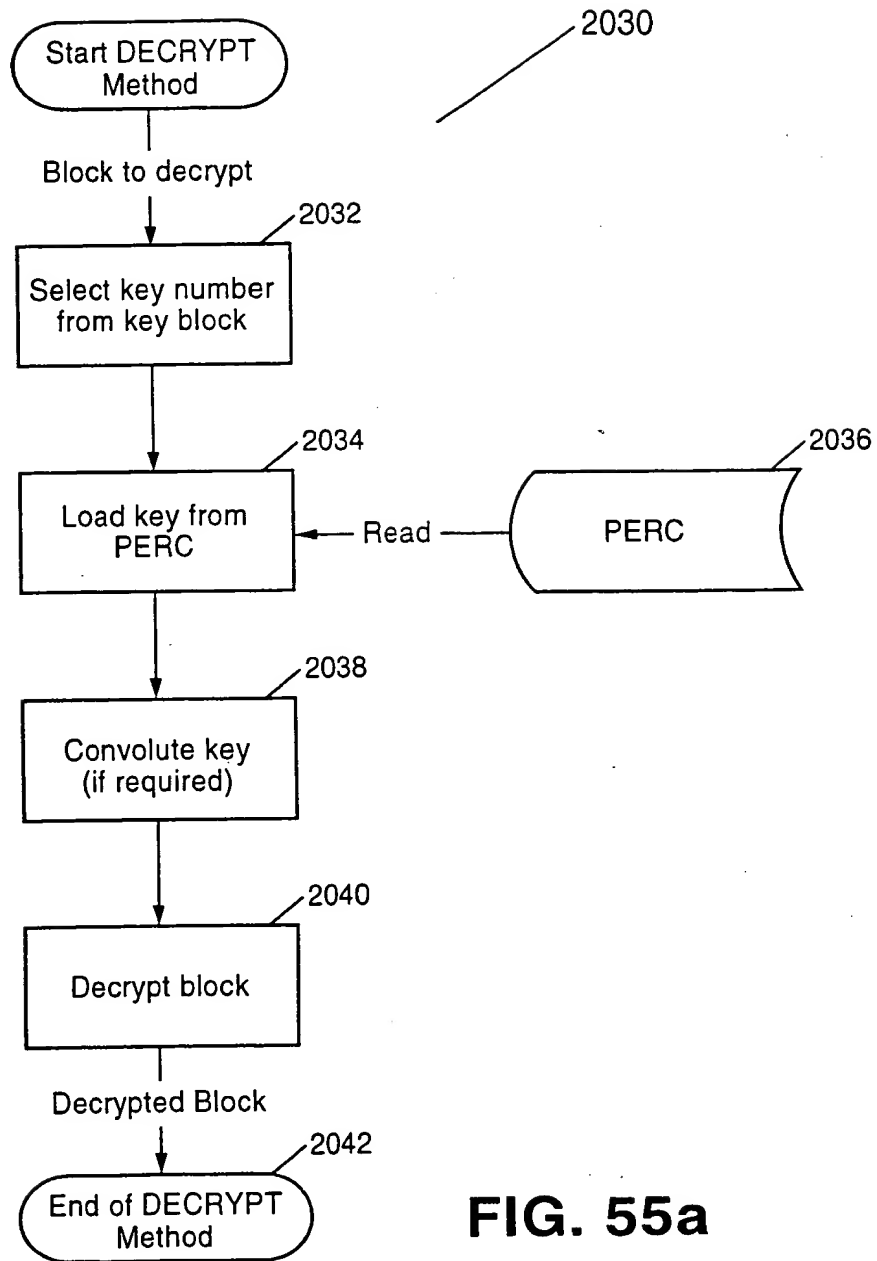


FIG. 55a

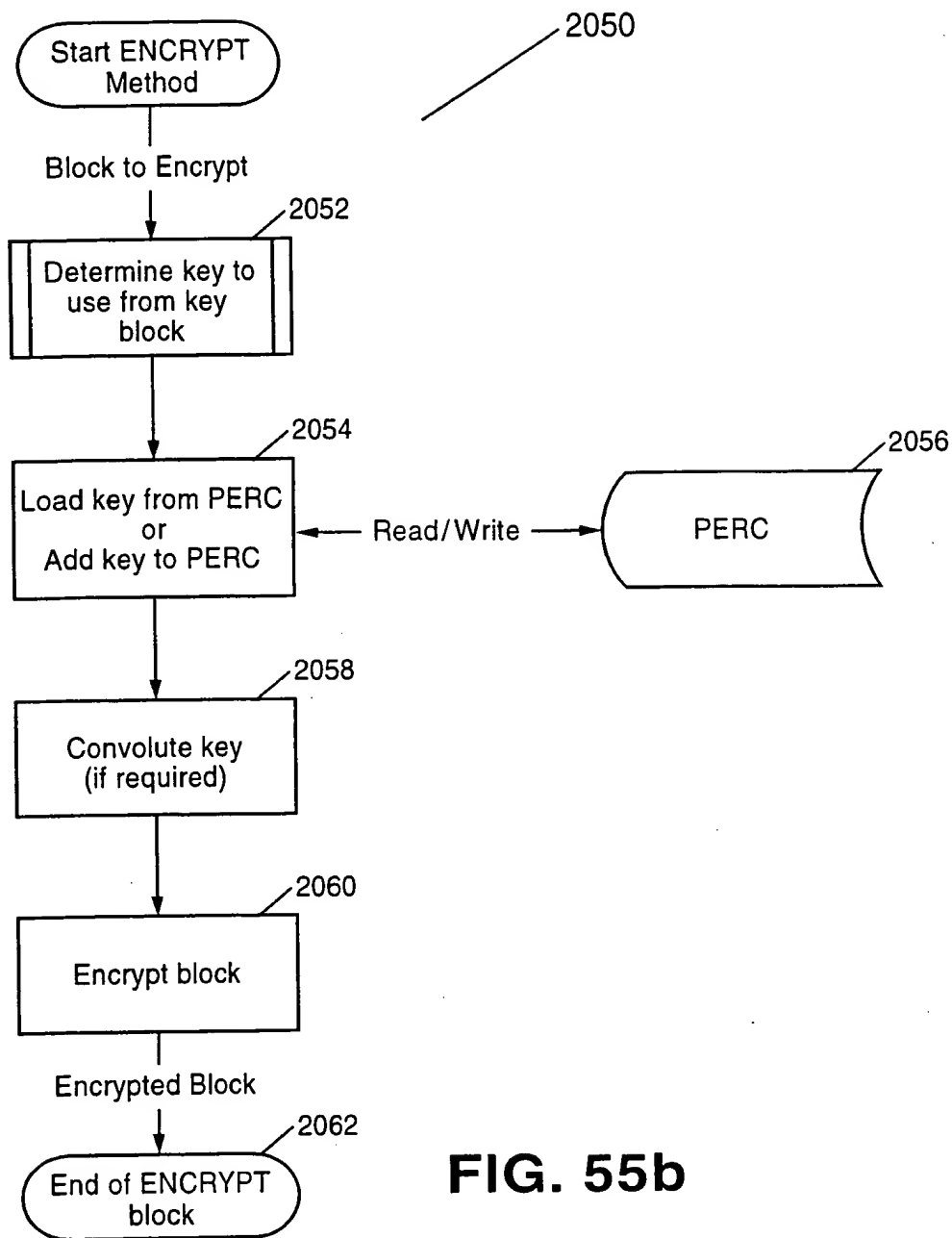


FIG. 55b

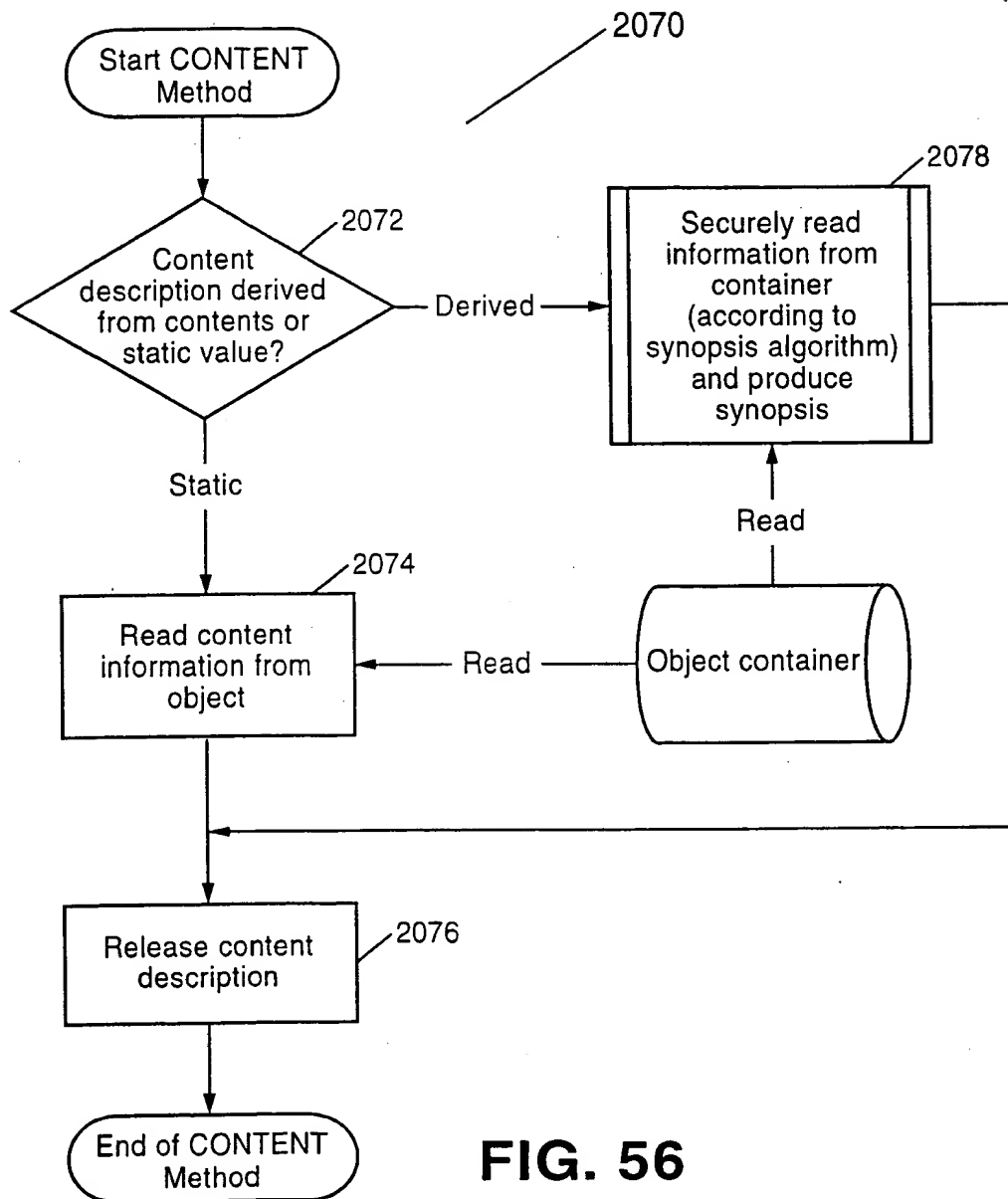


FIG. 56

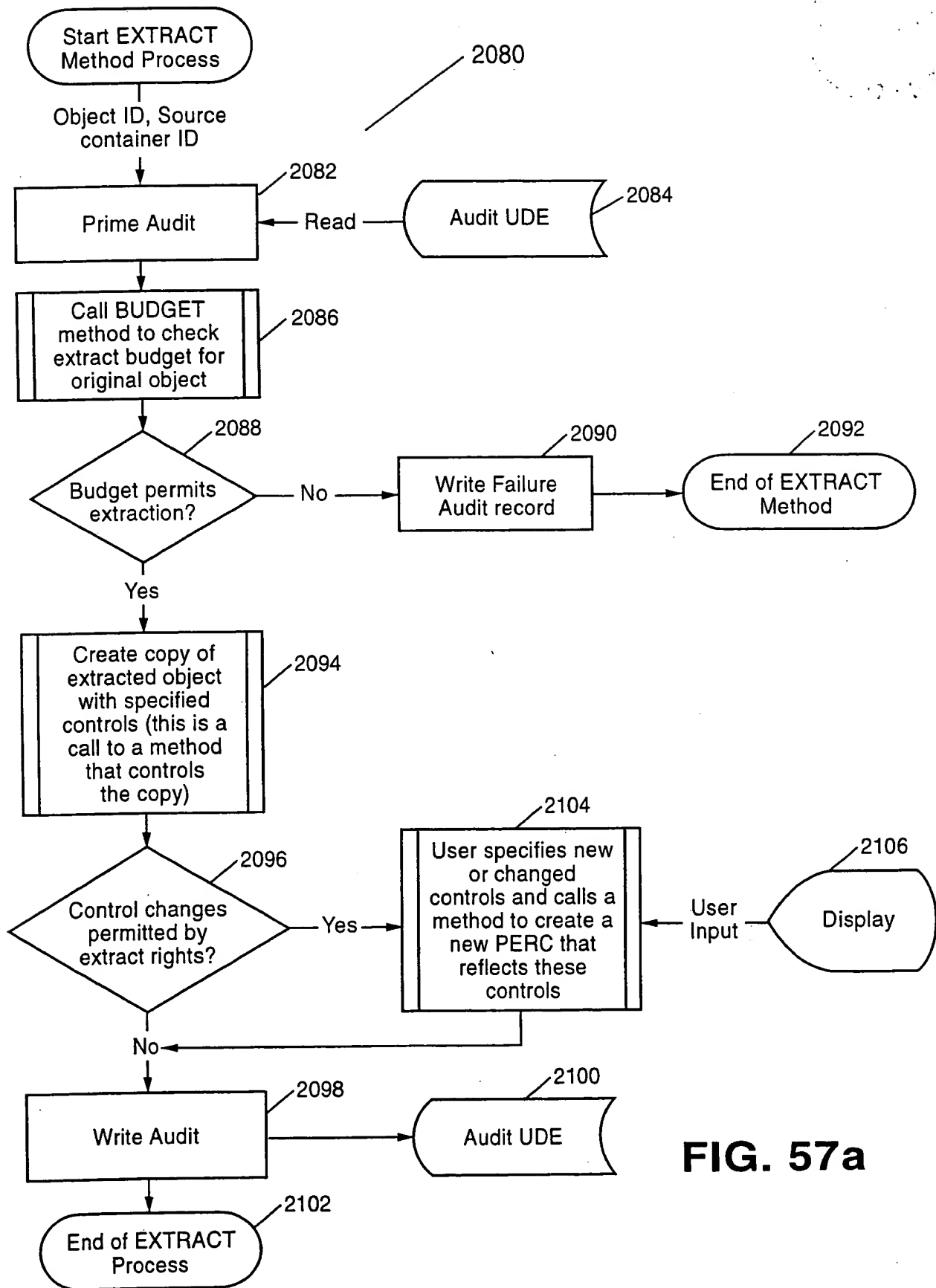
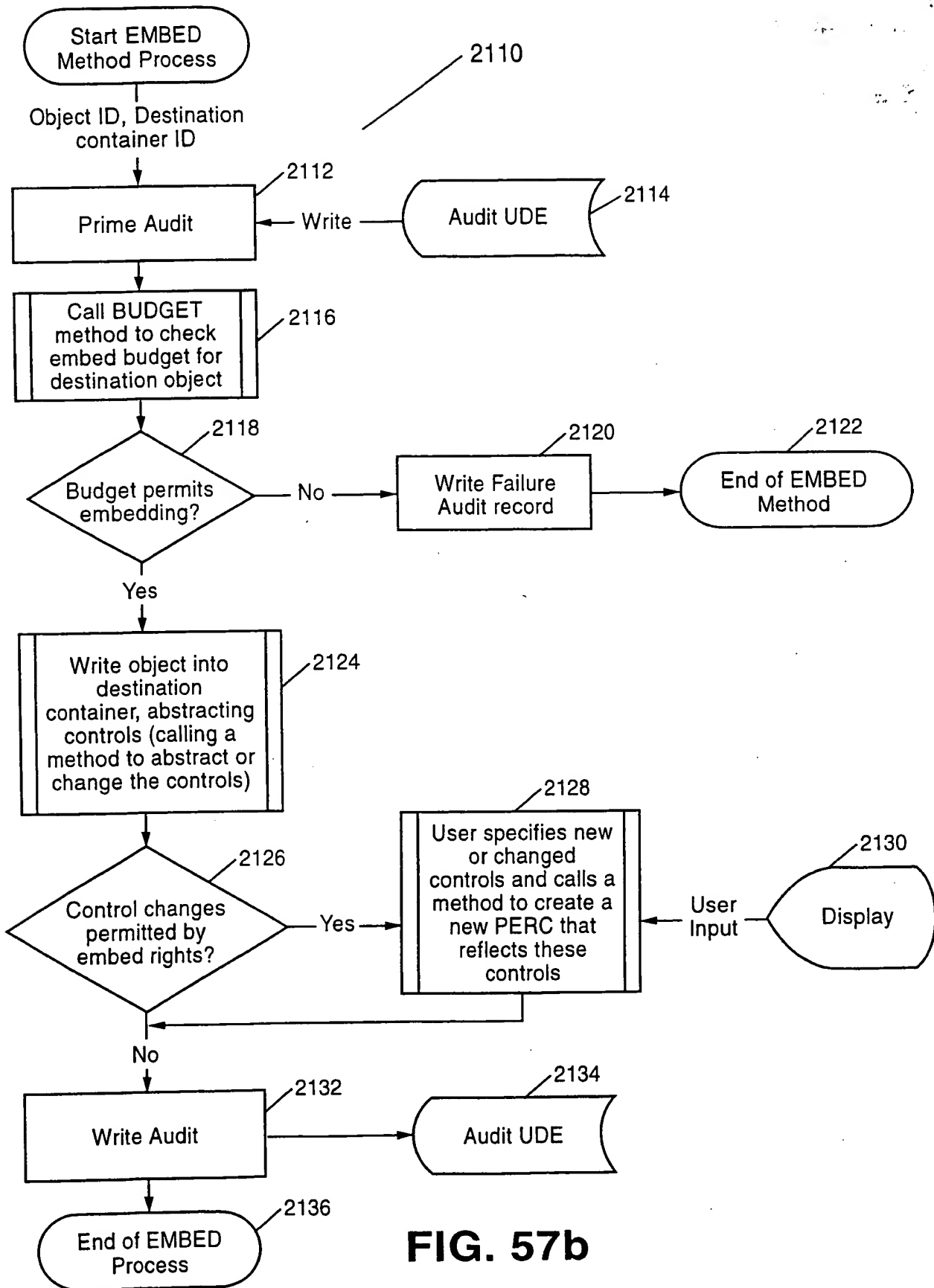


FIG. 57a



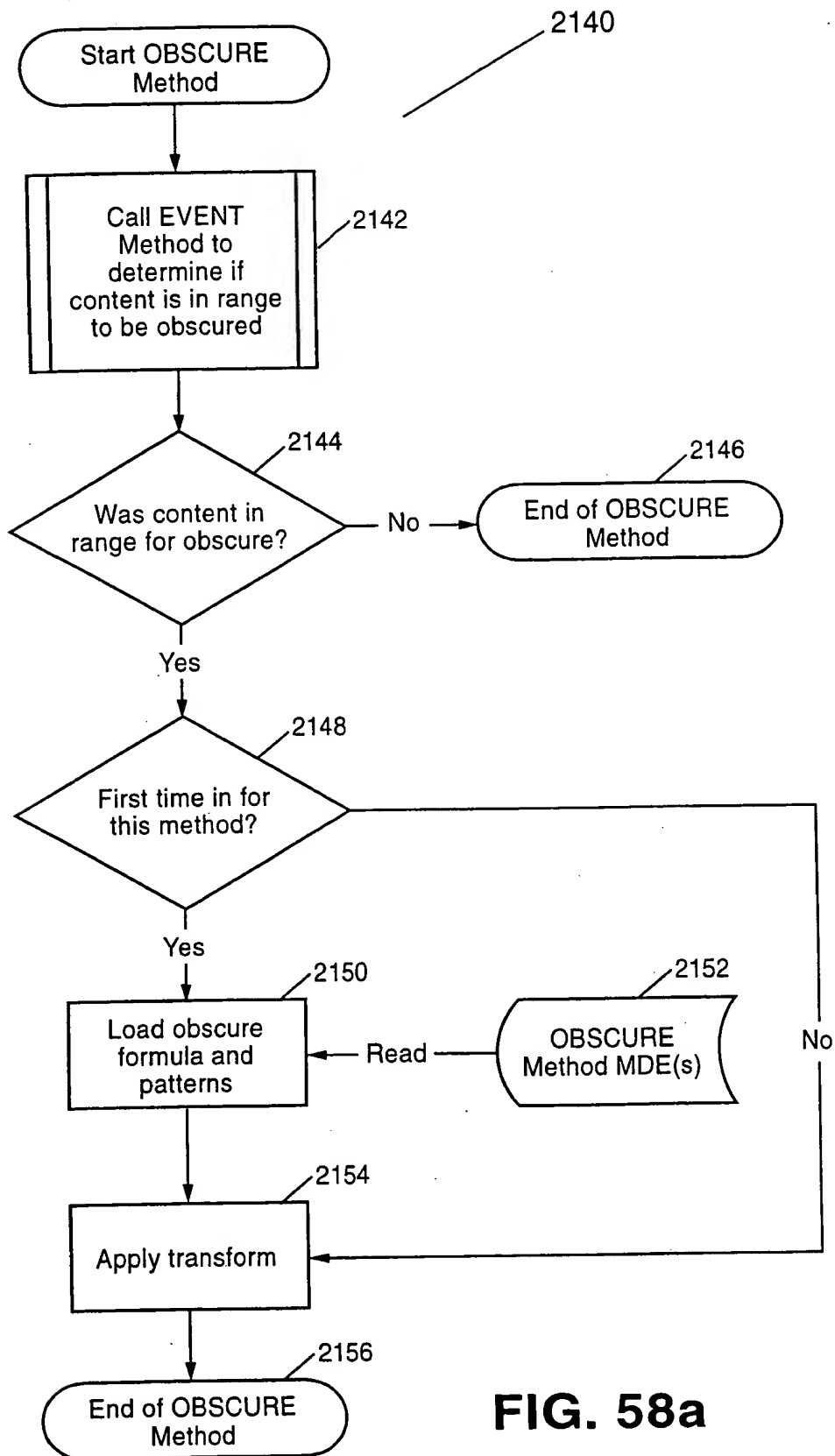


FIG. 58a

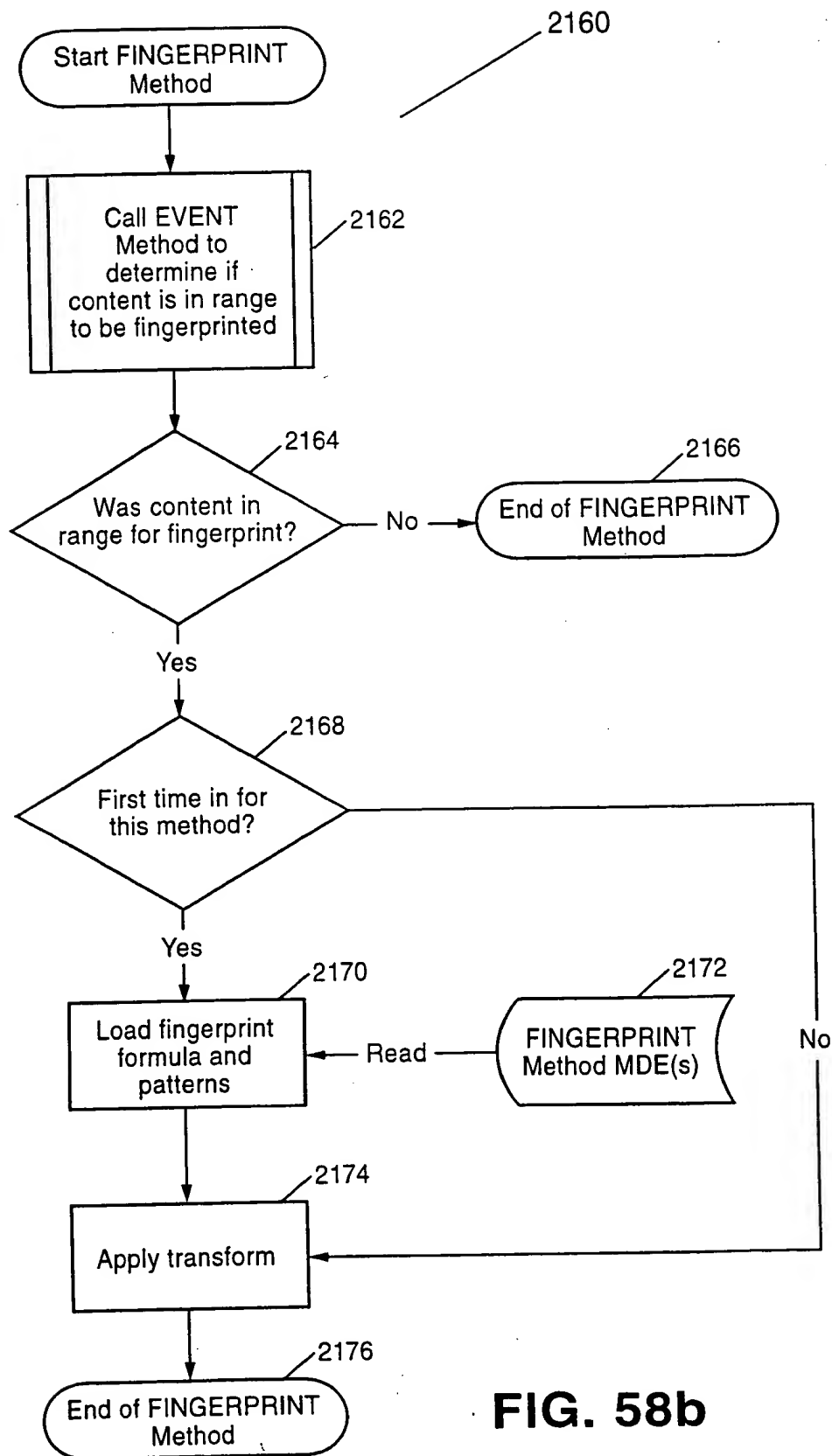


FIG. 58b

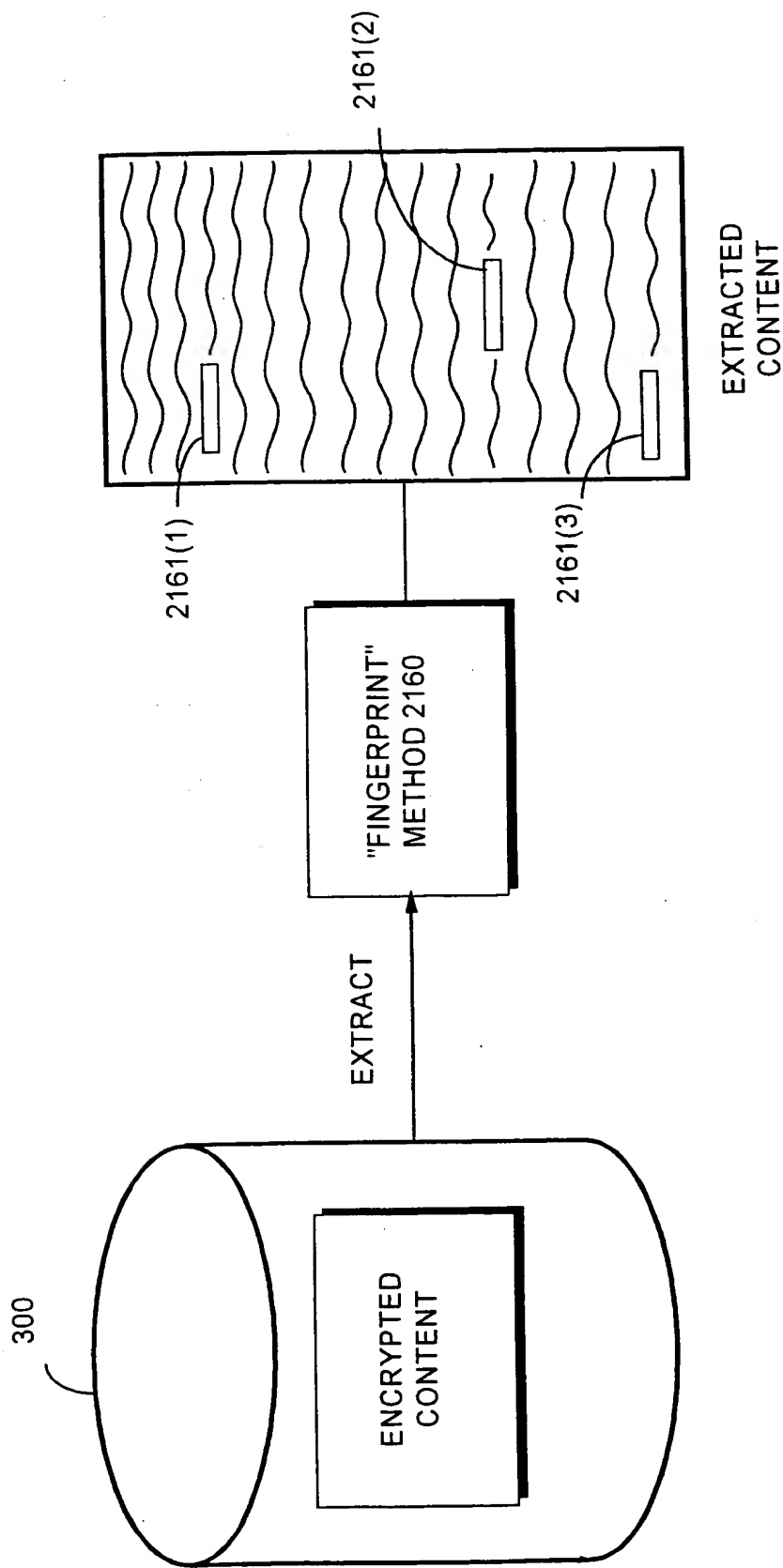


FIG. 58C

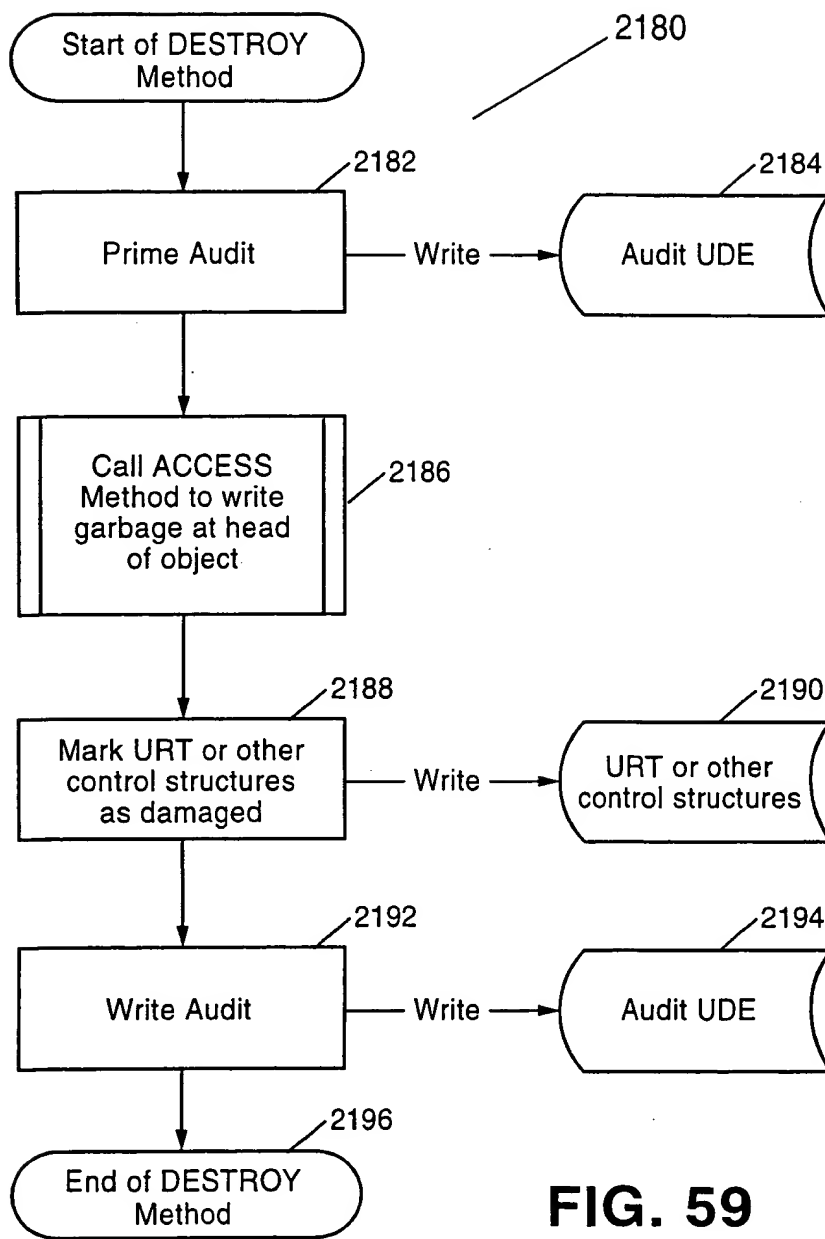


FIG. 59

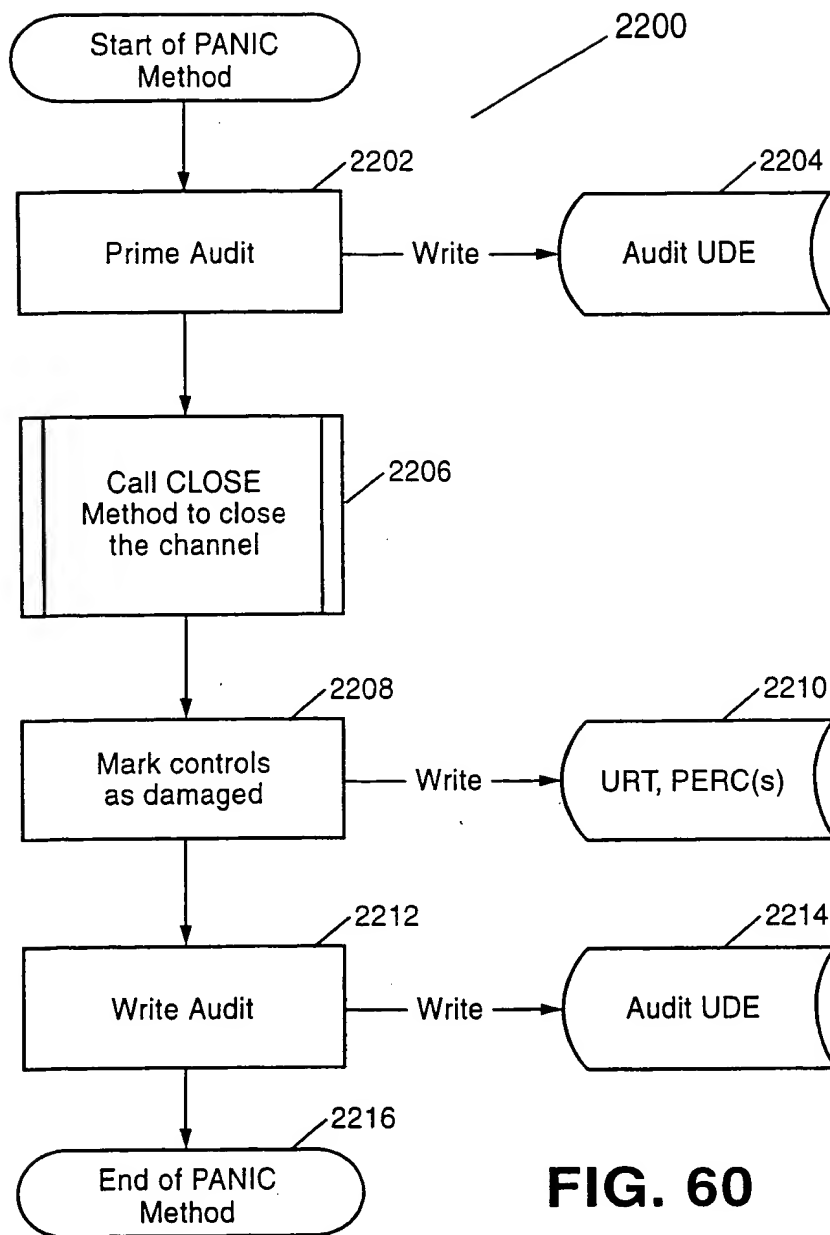


FIG. 60

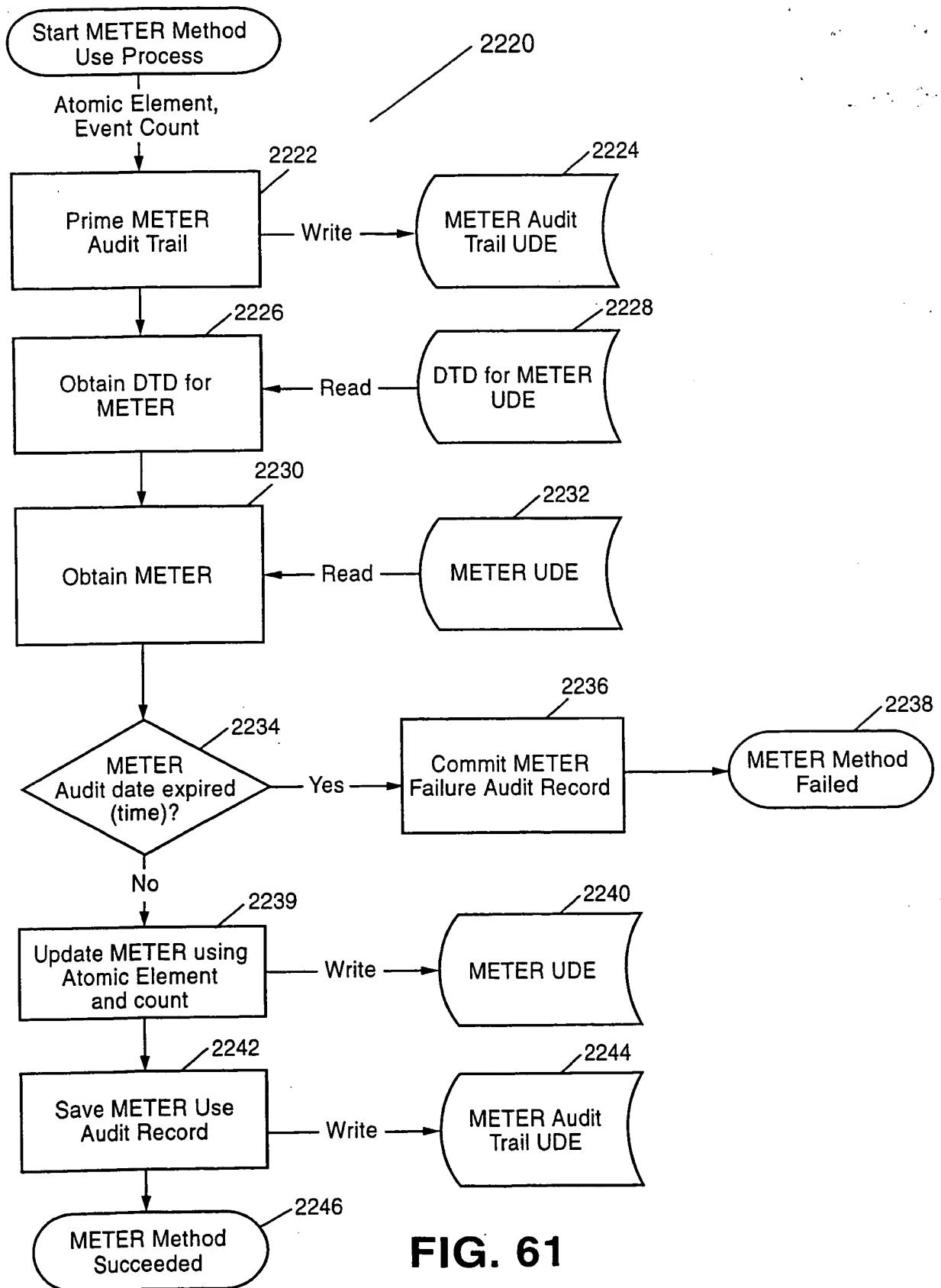
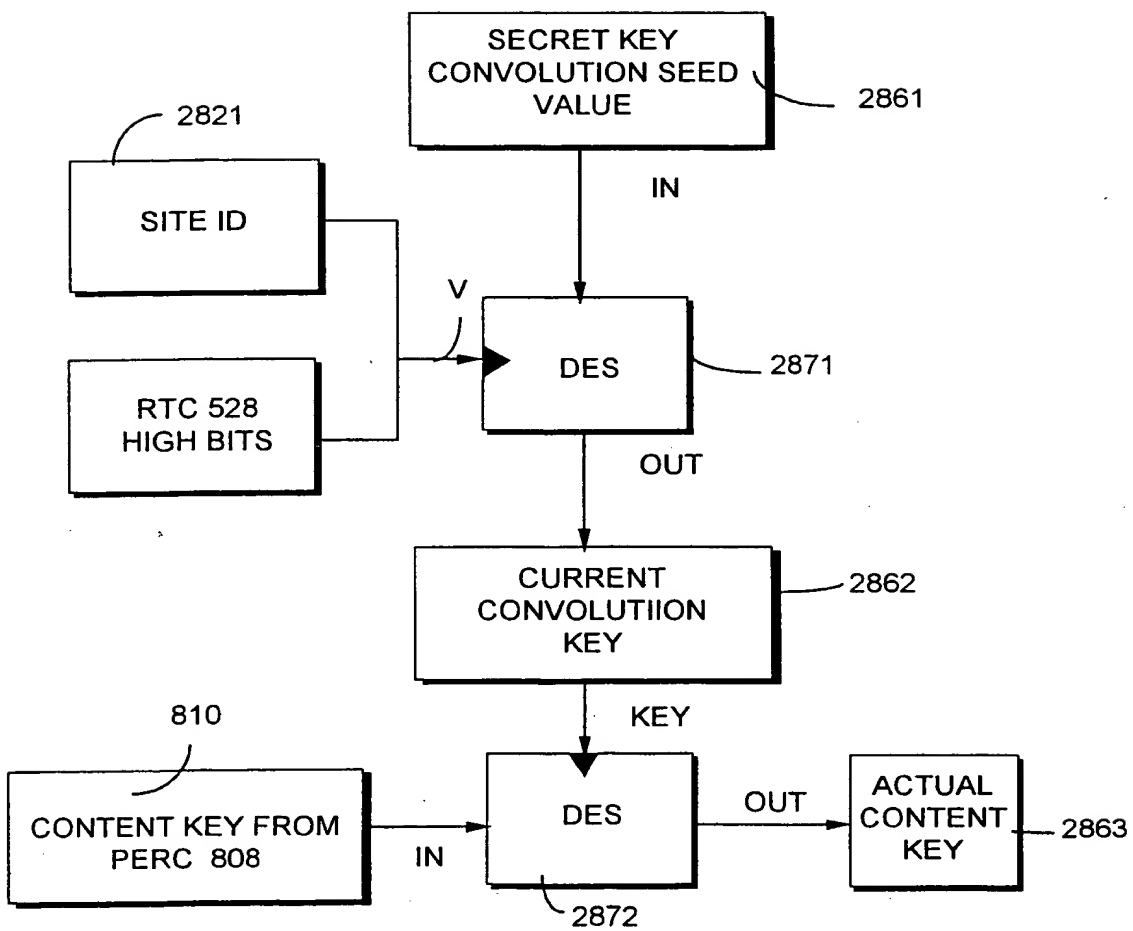


FIG. 61

FIG. 62



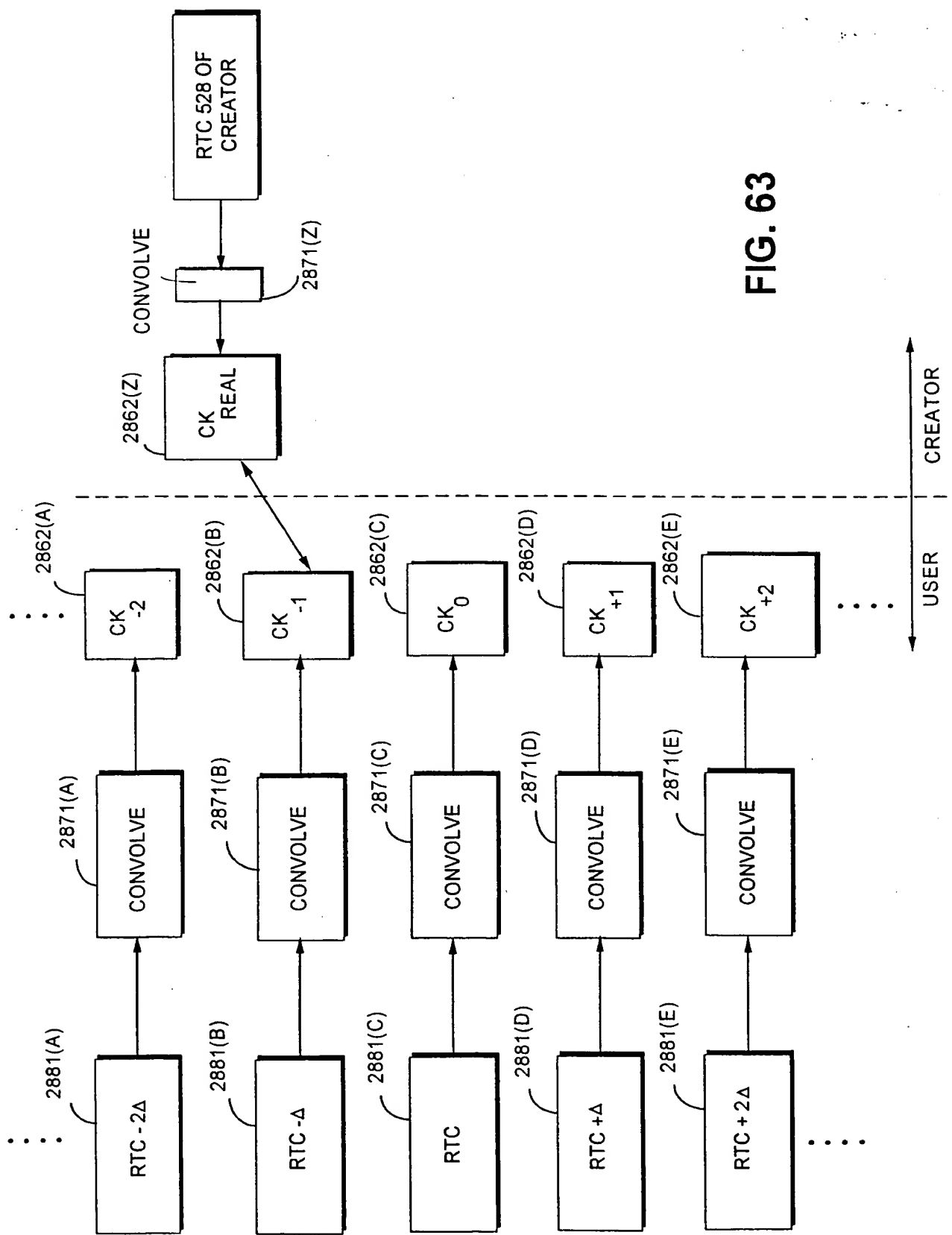


FIG. 63

FIG. 64

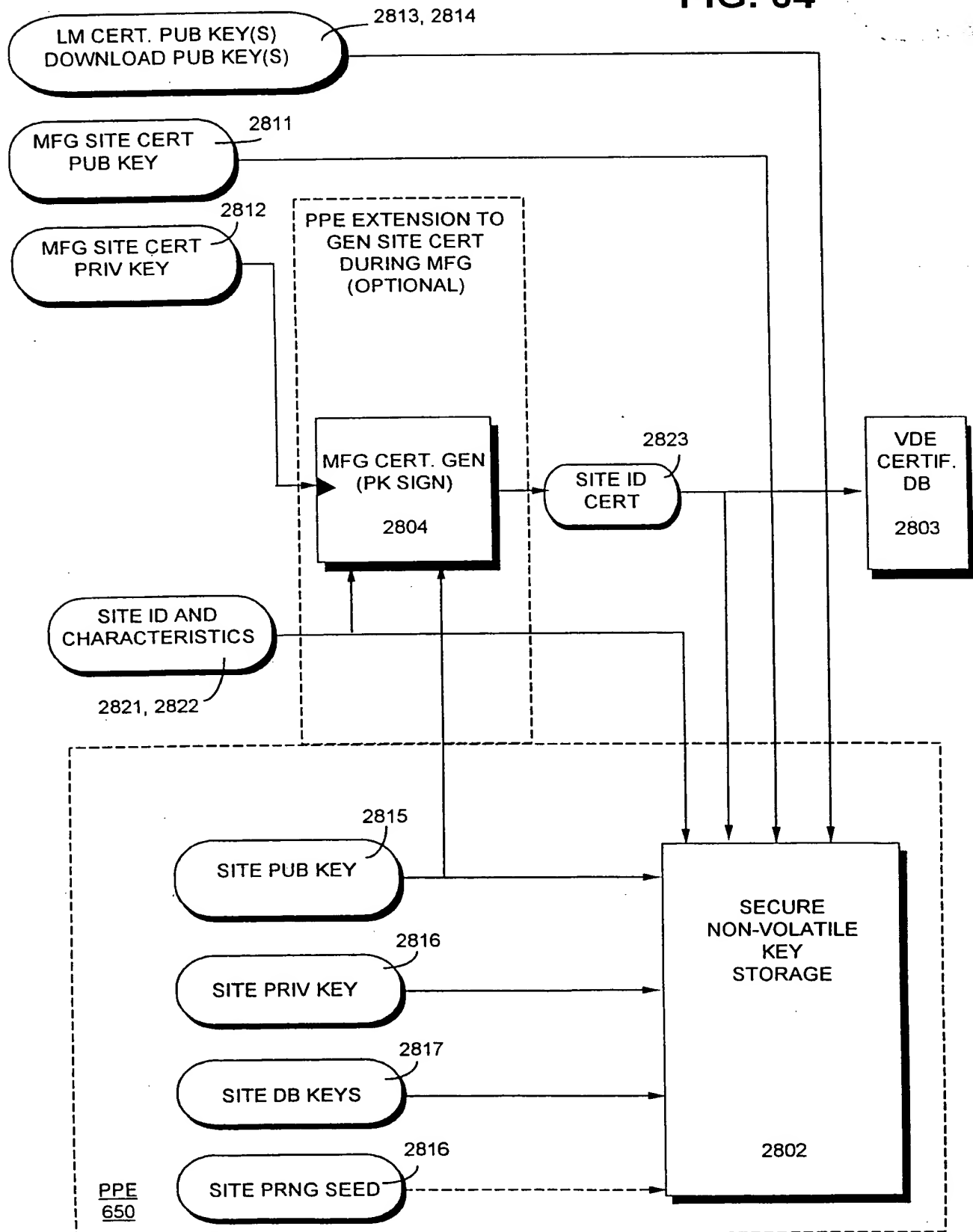


FIG. 65

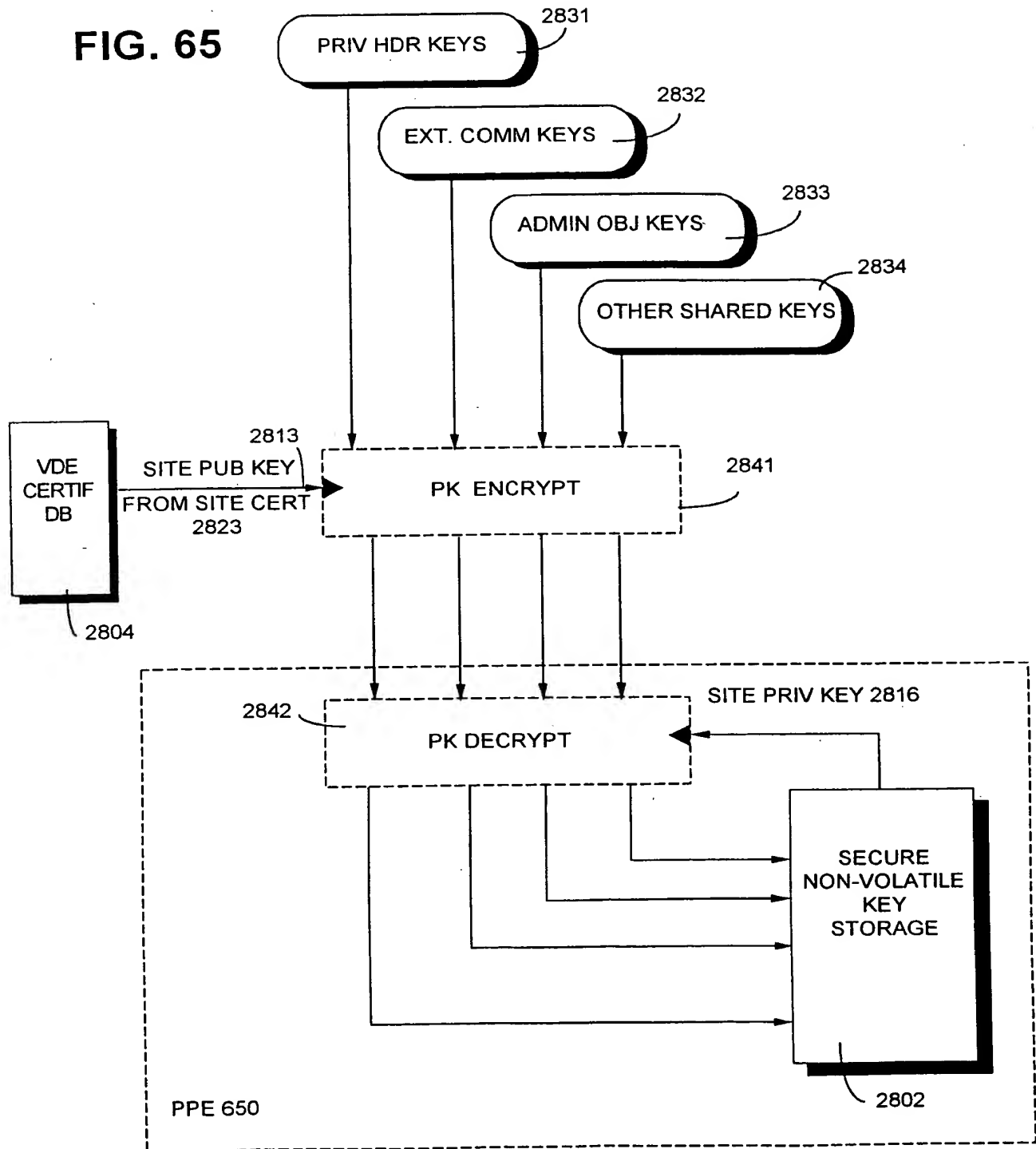
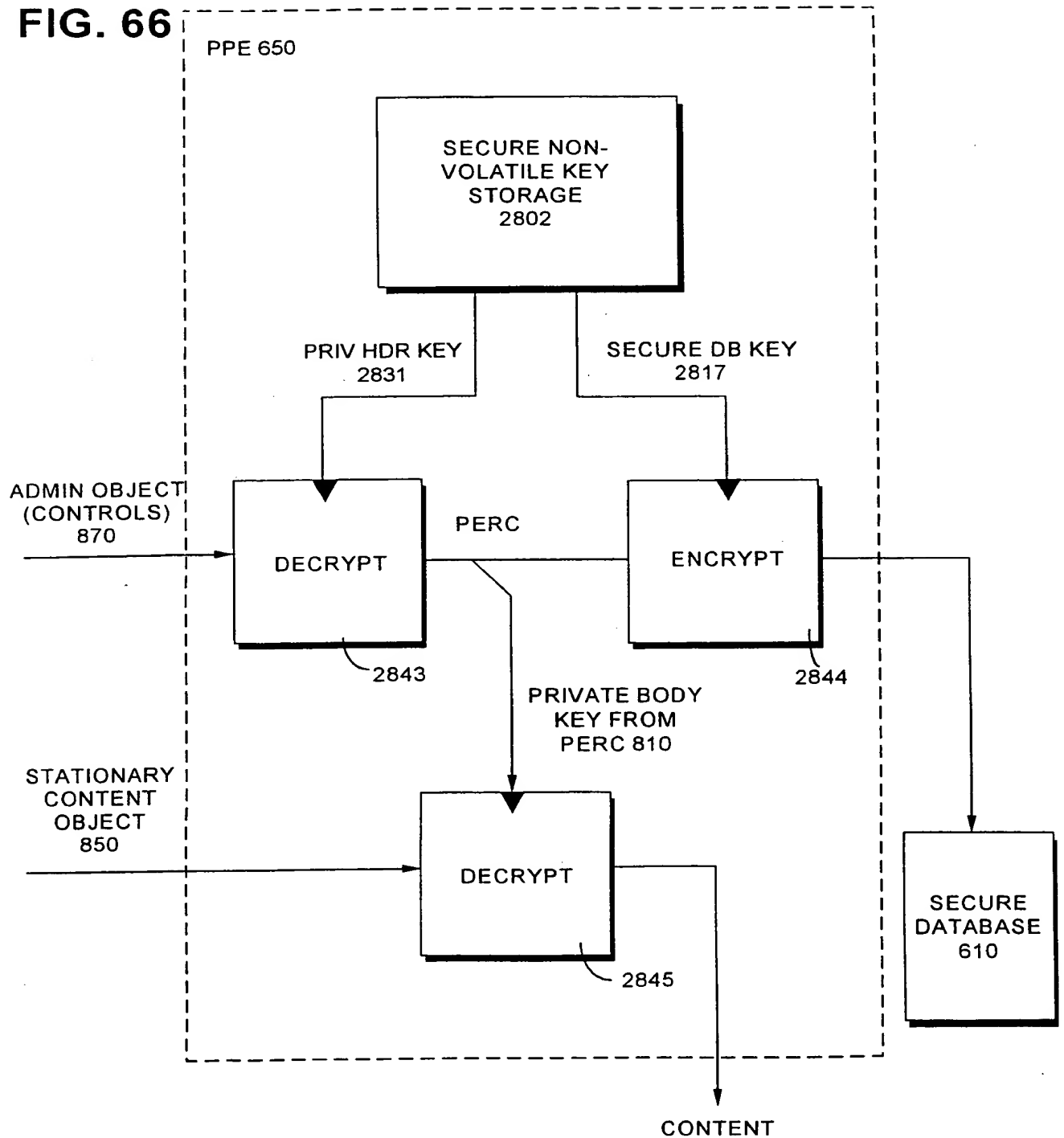


FIG. 66



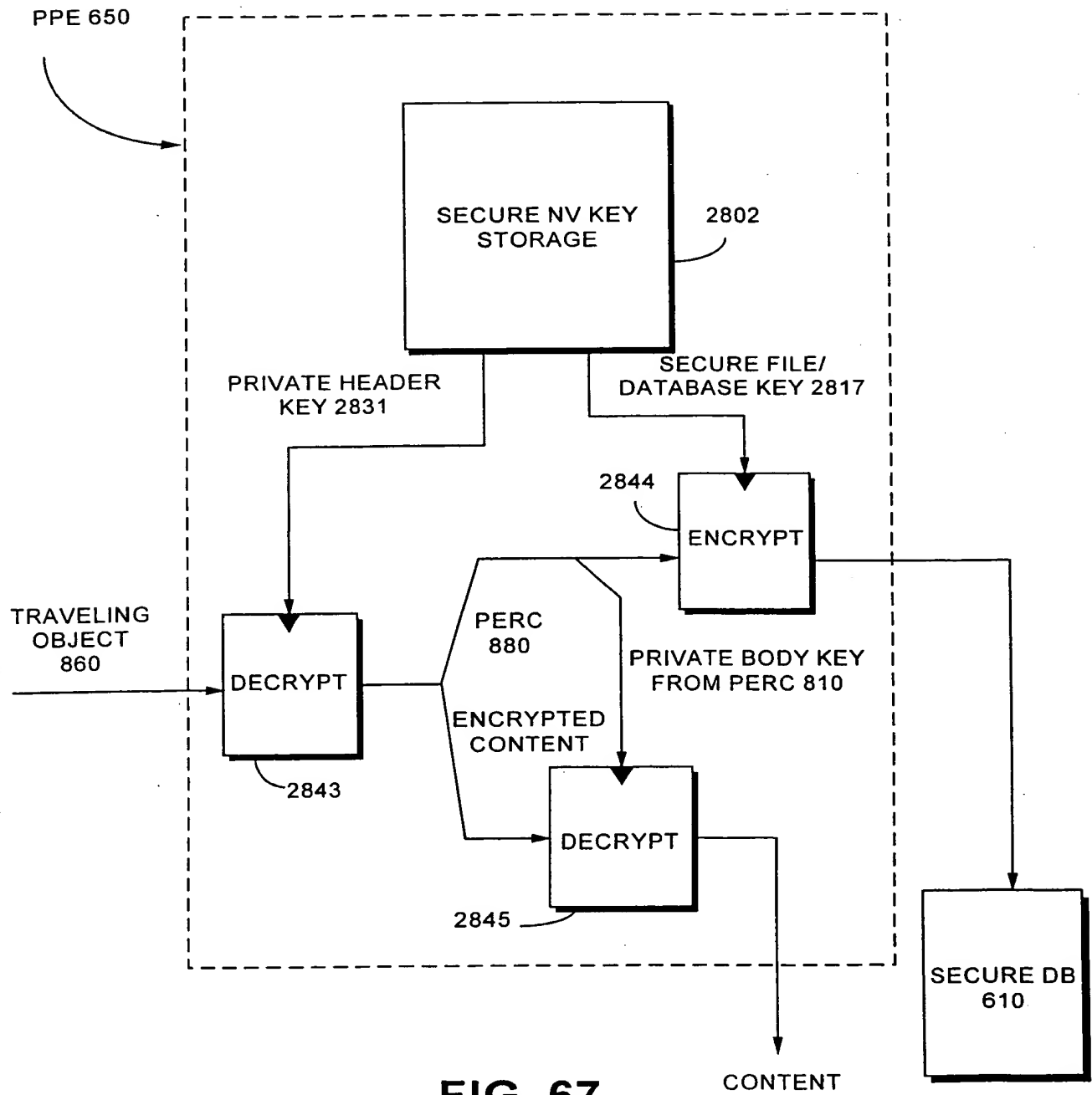
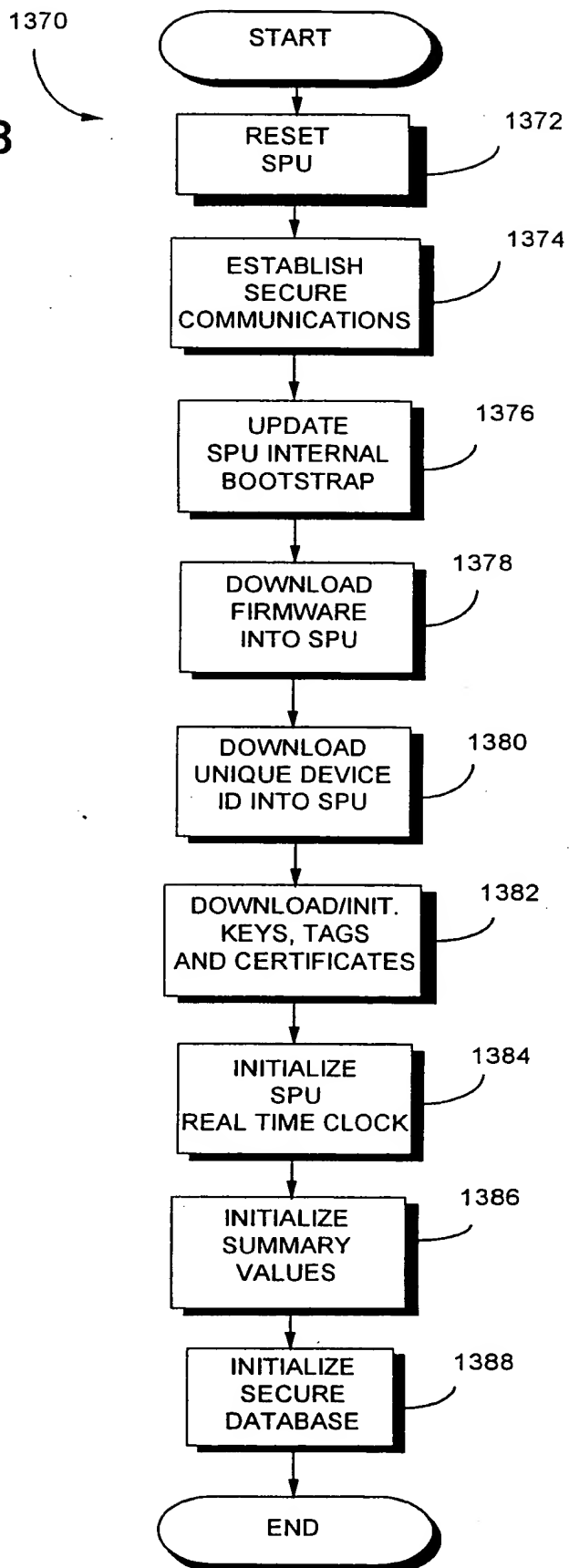
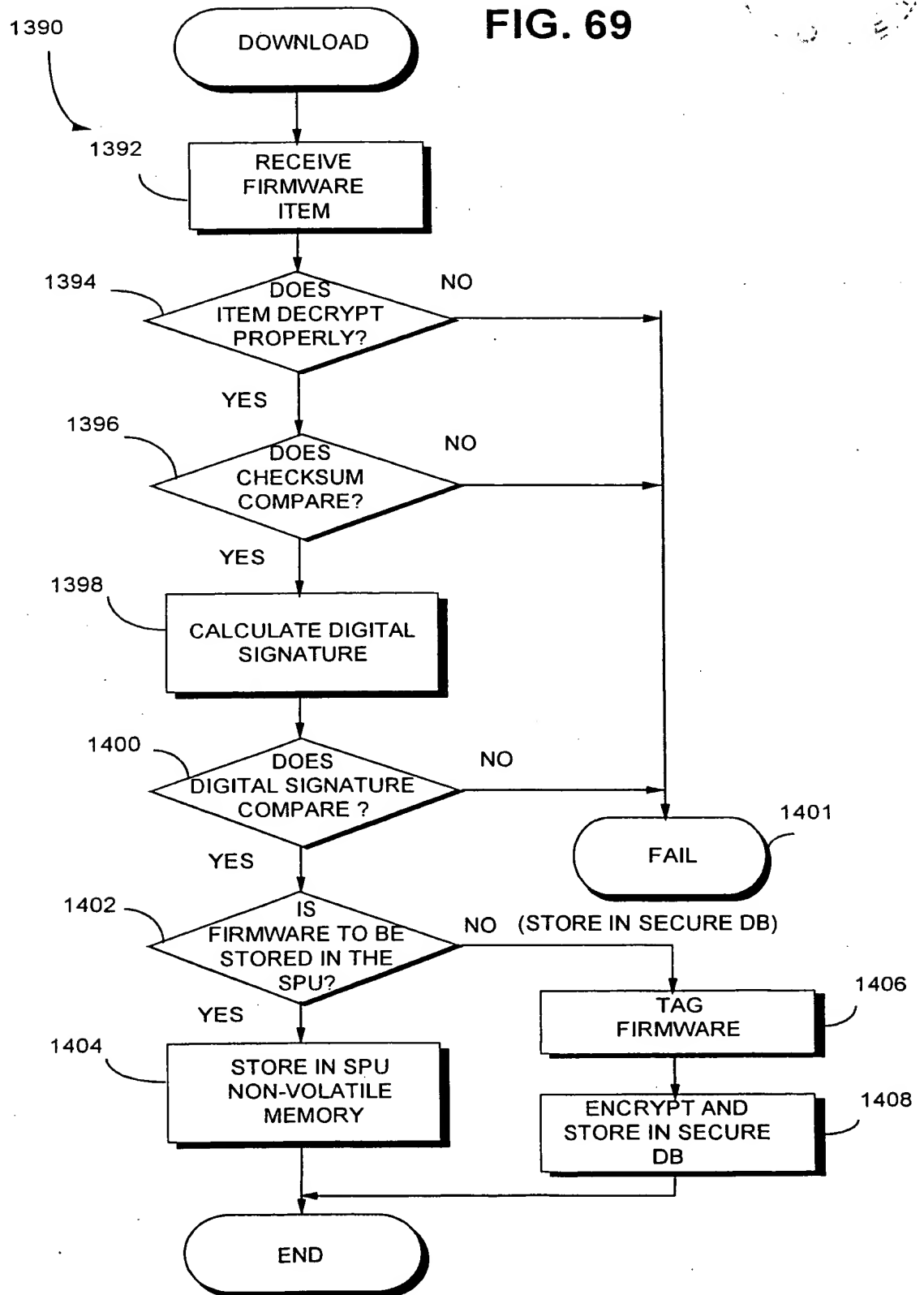


FIG. 67

FIG. 68





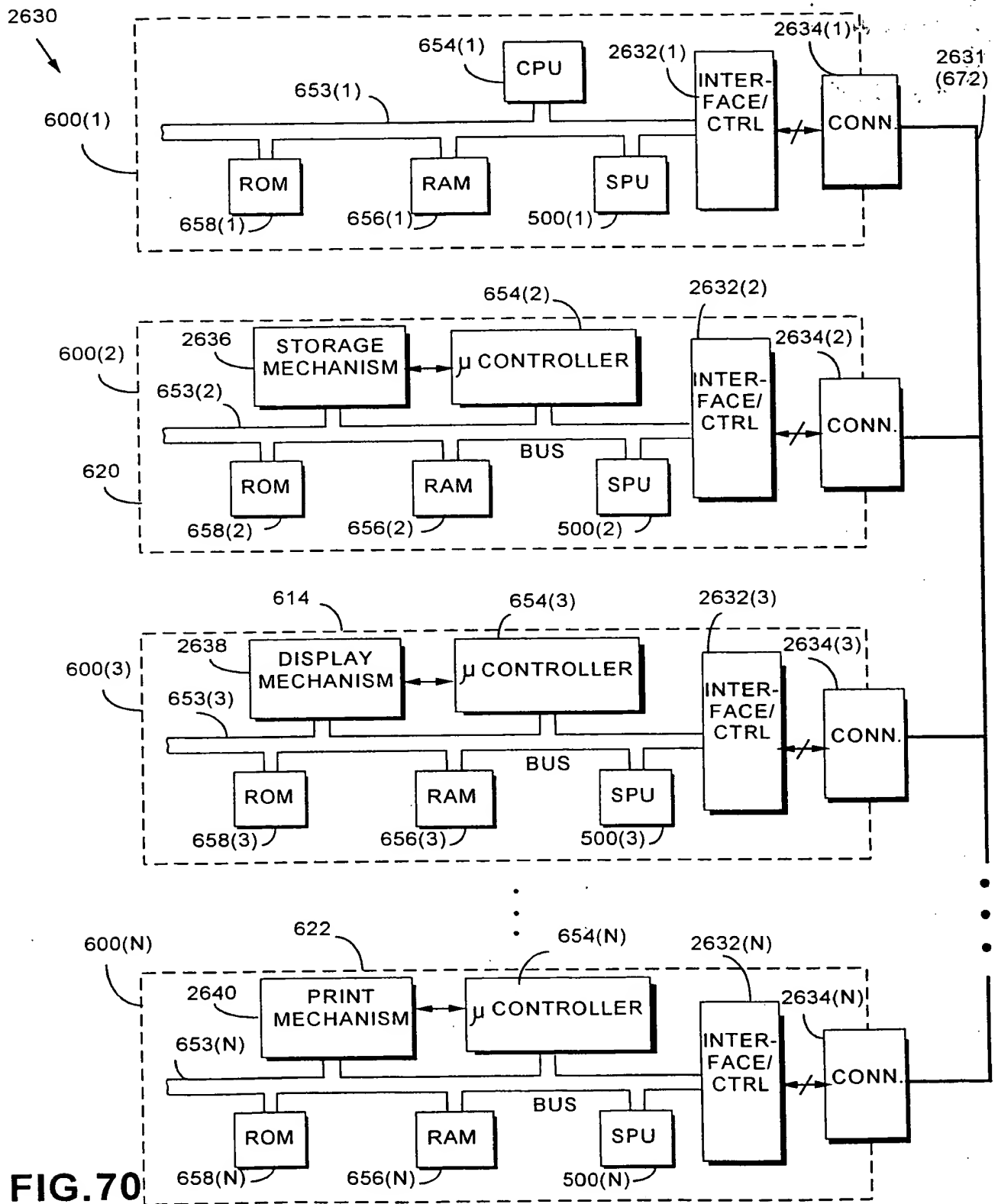
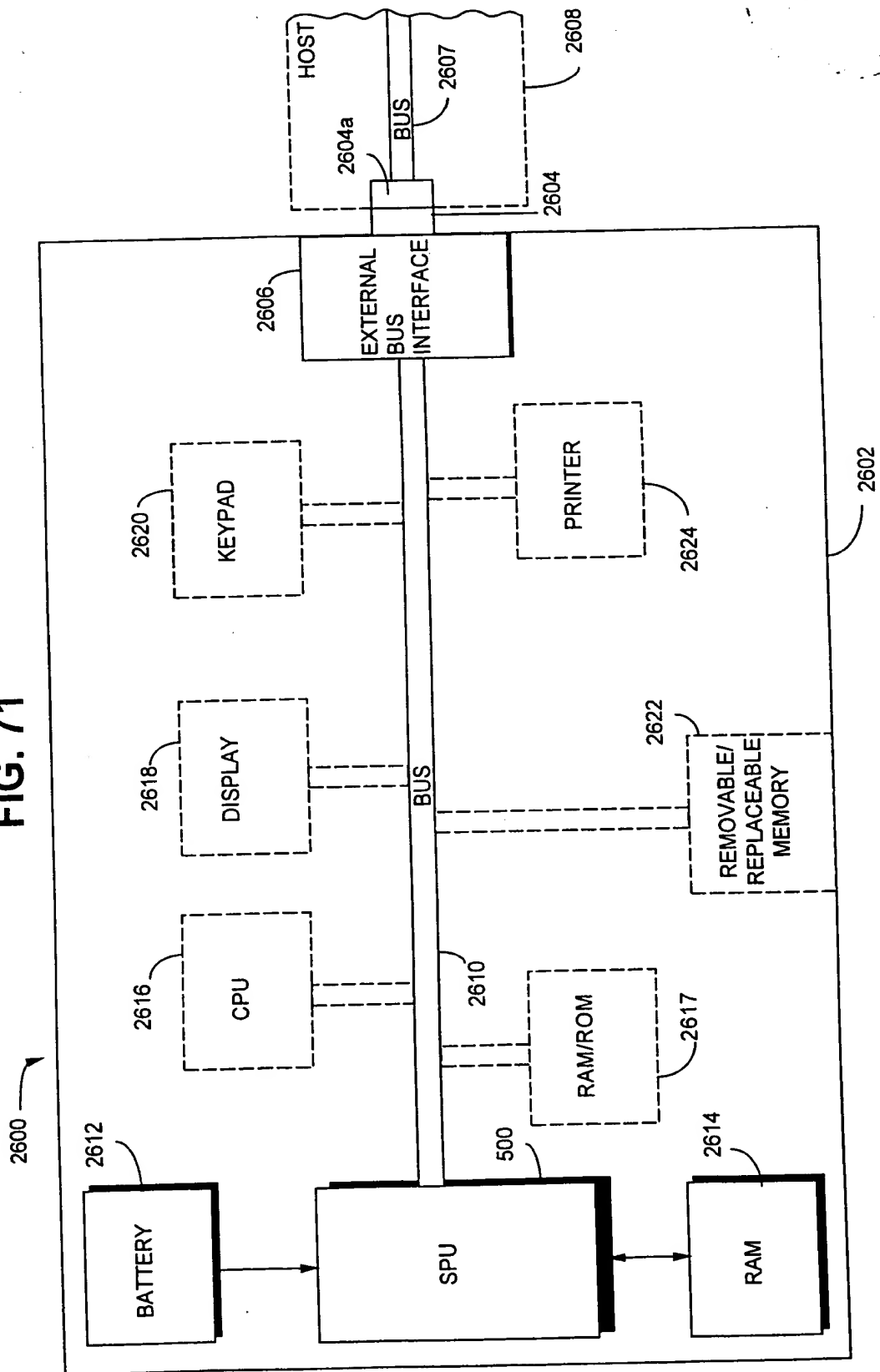


FIG.70

FIG. 71



LOG IN USER INTERFACE

182

USER NAME: SHEAR, V.

PASSWORD: * * * * *

☐ LOGIN AT STARTUP

LOGIN

CANCEL


HELP

FIG. 72A

FIG. 72B

2660

YOU HAVE REQUESTED THESE PROPERTIES:



LOONEY TUNES NEWS!

2662

PROPERTY INFO

Your Cost: \$7.50

APPROVE

SUSPEND

CANCEL

MORE OPTIONS ?

2664

FIG. 72C

SET LIMITS:

SESSION DOLLAR LIMIT: \$ 2666

TRANSACTION DOLLAR LIMIT: \$ 2668

TIME LIMIT (IN MINUTES): 2670

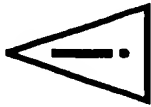
UNIT LIMIT: 2672

OK 2674

CANCEL

HELP!

FIG. 72D



YOU HAVE REQUESTED THESE PROPERTIES:

LOONEY TUNE NEWS!

CANCEL

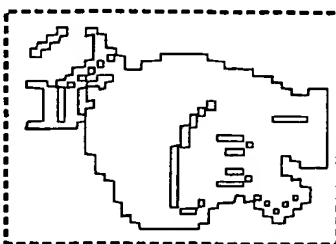
SUSPEND

APPROVE

PROPERTY INFO

YOUR COST : \$7.50

More Options ☒



Show Thumbnail

PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?:	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓	●	
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓	●	
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY		●	
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY		●	
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCK! RABBIT! DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL		●	

SET LIMITS...

SHOW BUDGETS

ACQUIRE BUDGET...

HISTORY...

TRANSFER...

PREFERENCES...

FEEDBACK...

HELP!

FIG. 73

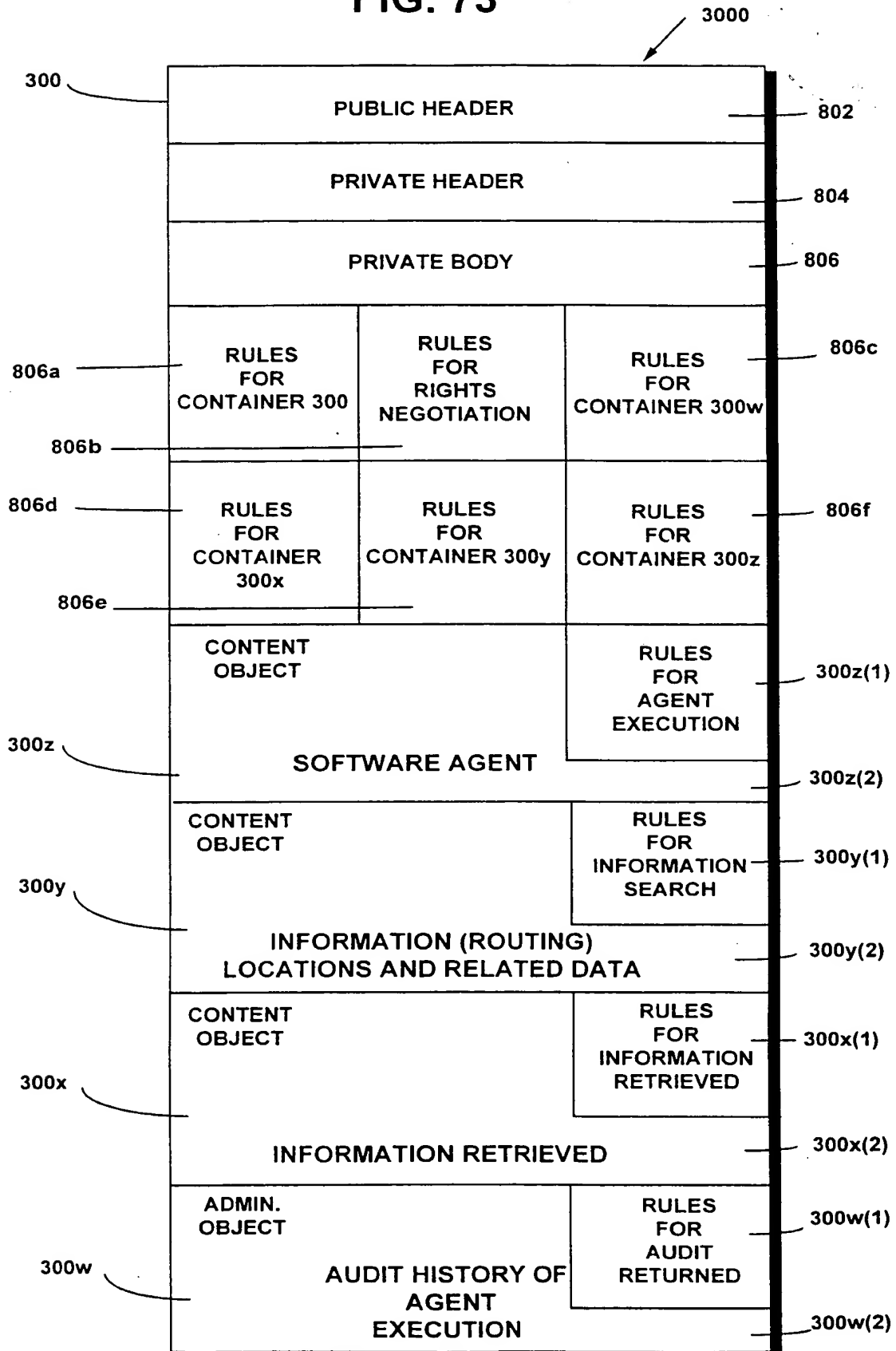


FIG. 74

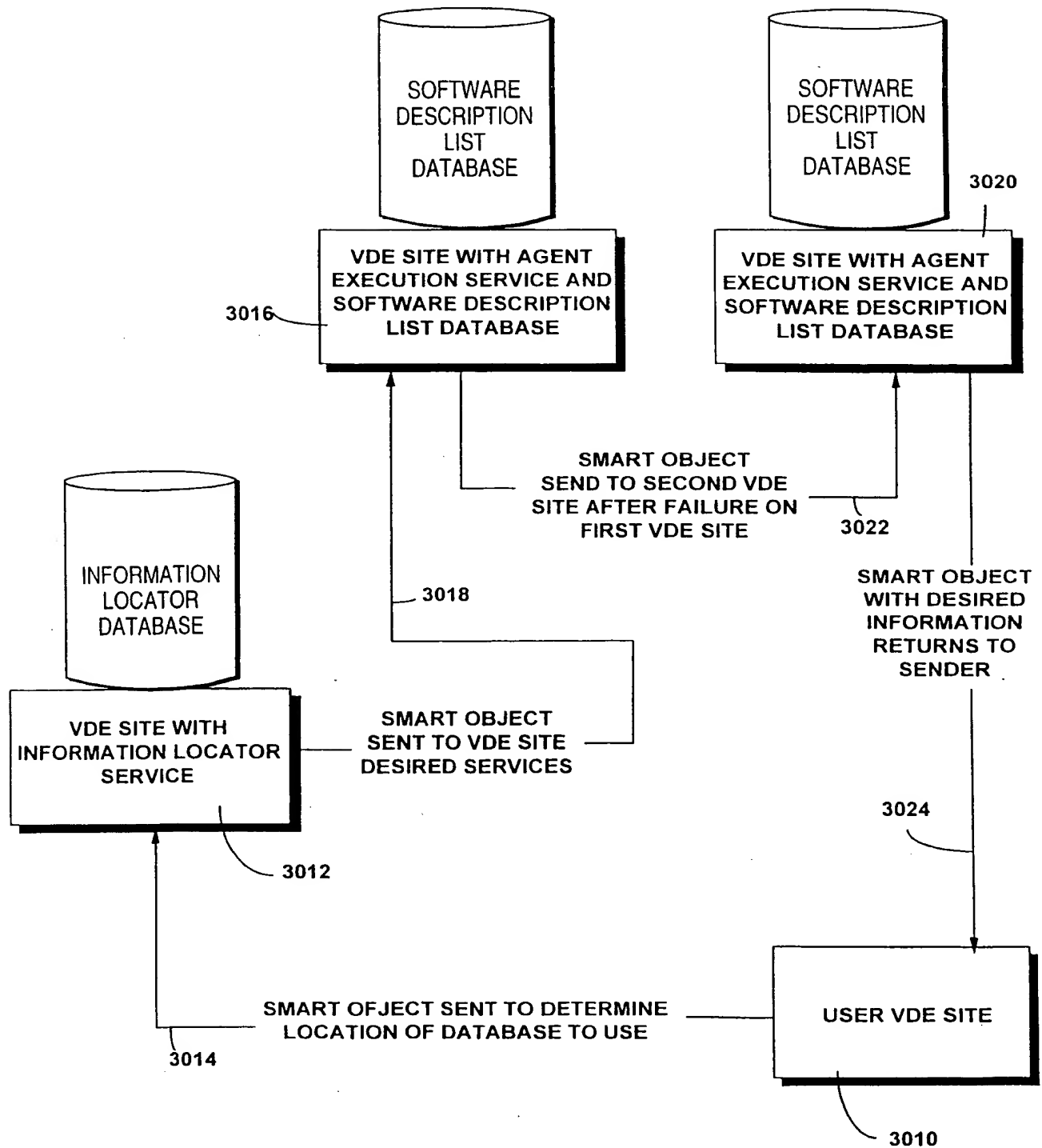


FIG. 75A

PERC HEADER		3104 CSO		3100 PRIVATE BODY KEYS	
USE RIGHT HDR		CSR		KEYS	
PERMITTED CONTROL SET (USE W/O INFO. PASSBACK)		3118 CONTROL METHOD (VENDING)			
3102a REQUIRED METHOD, BUDGET					
3108 METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
3110 REQUIRED METHOD, BILLING (\$100 FIXED, ONE TIME)					
DESIRED CONTROL SET (USE WITH INFO. PASSBACK)		3120 CONTROL METHOD (VENDING WITH "RESPONSE CARD")			
3102b REQUIRED METHOD, BUDGET					
3112 METHOD OPTION: VISA		METHOD OPTION: MASTERCARD		METHOD OPTION: AMEX	
REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)					
3114 REQUIRED FIELDS		DESIRED FIELDS			
3116 REQUIRED METHOD, BILLING (\$25 FIXED, ONE TIME)					

FIG. 75B

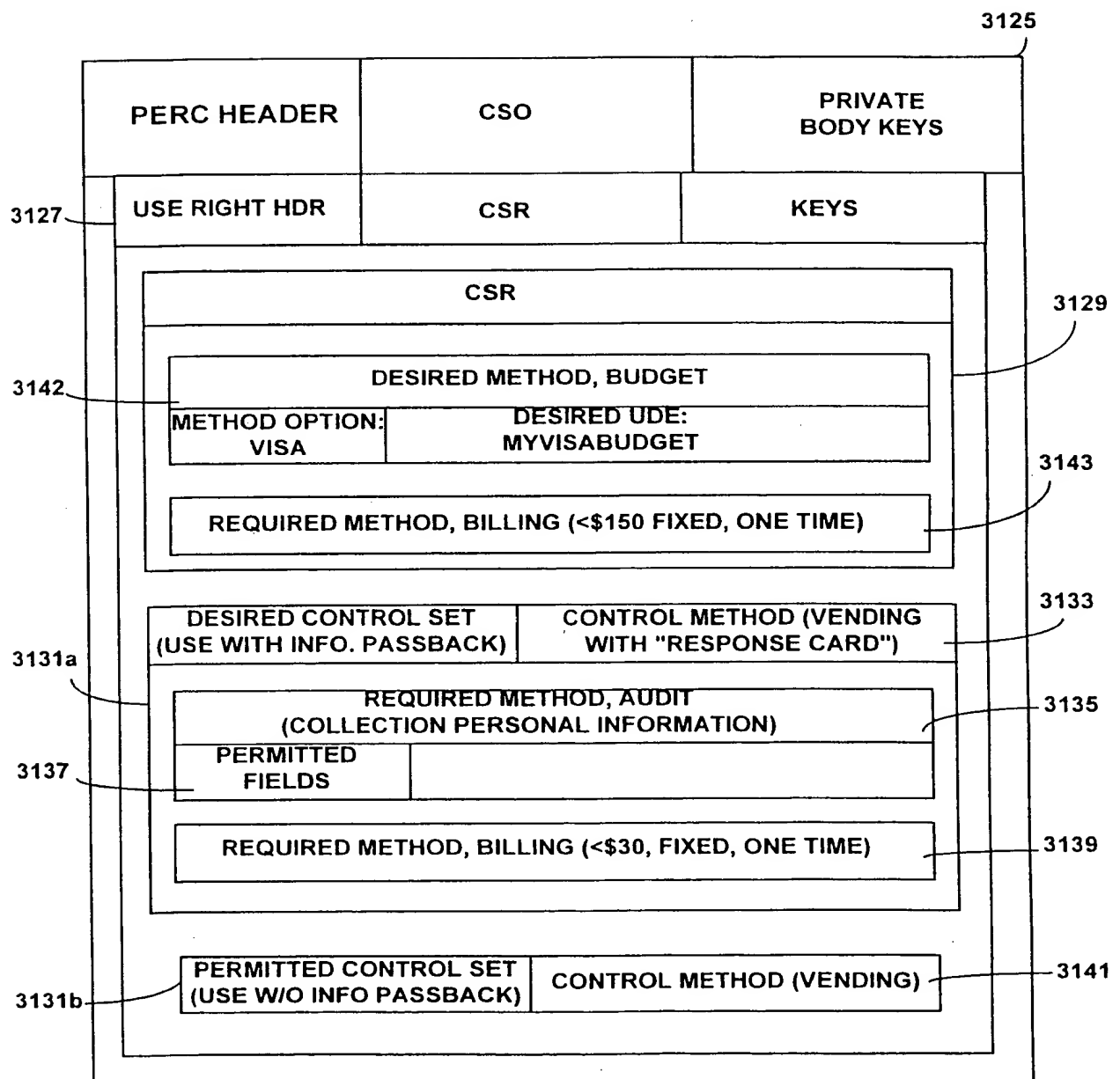


FIG. 75C

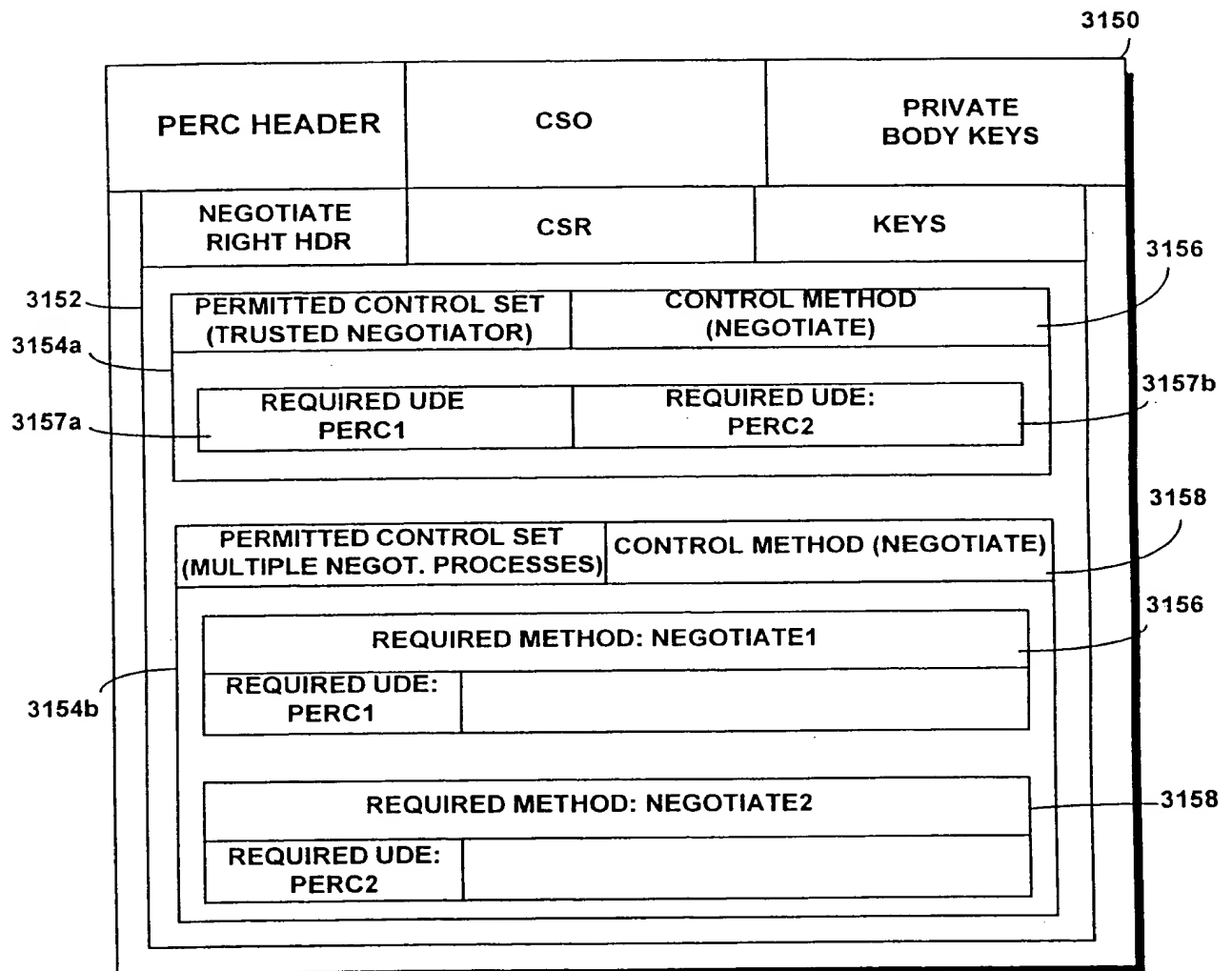


FIG. 75D

URT HEADER		CSO	DIGITAL SIGNATURE	3160
USE RIGHT HDR		CSR		
CONTROL SET(USE WITH INFO. PASSBACK)		CONTROL METHOD(VENDING WITH "RESPONSE CARD")		
3162	REQUIRED METHOD, BUDGET			
3164	METHOD OPTION: VISA	DESIRED UDE: MYVISABUDGET		
3166	REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)			
	PERMITTED FIELDS			
3170	REQUIRED METHOD, BILLING(\$25, FIXED, ONE TIME)			

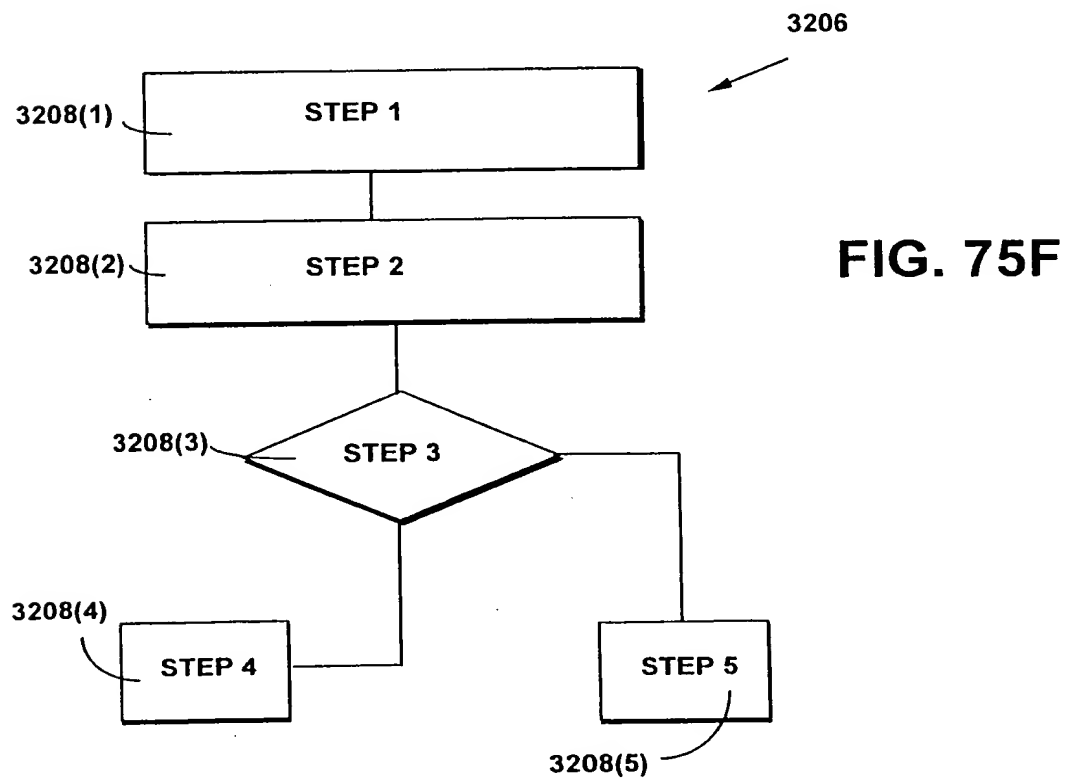
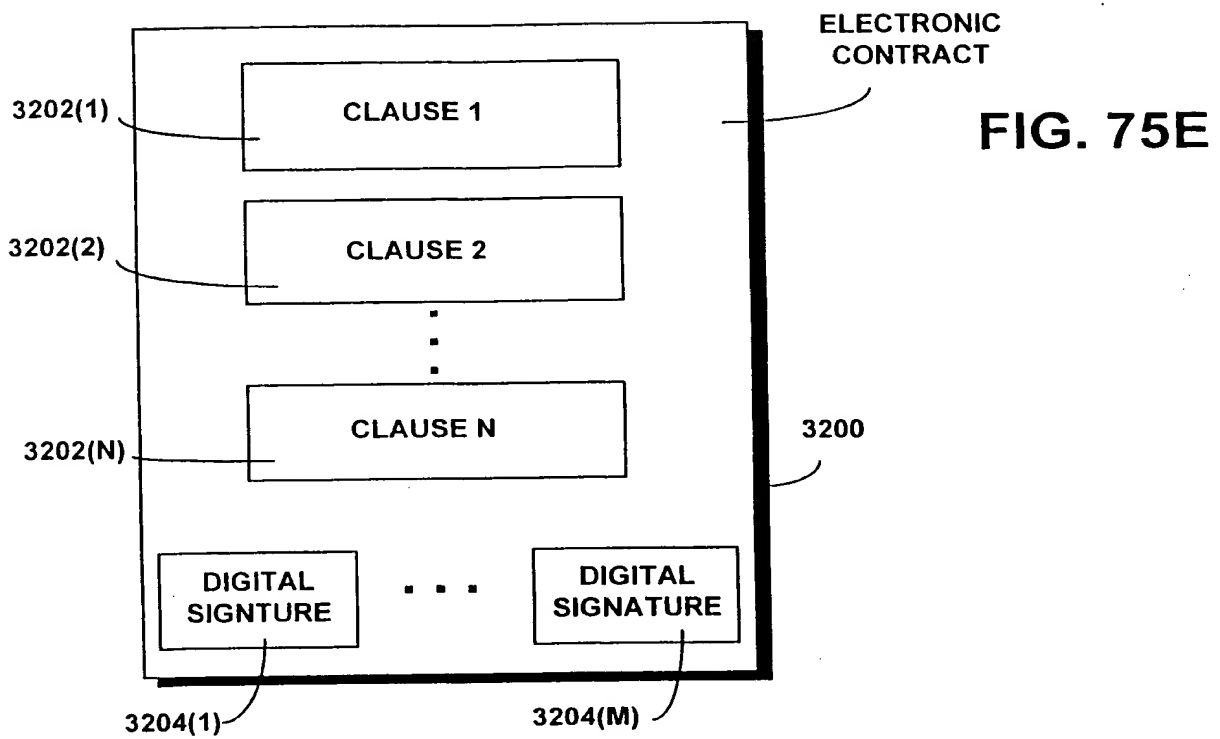


FIG. 76A

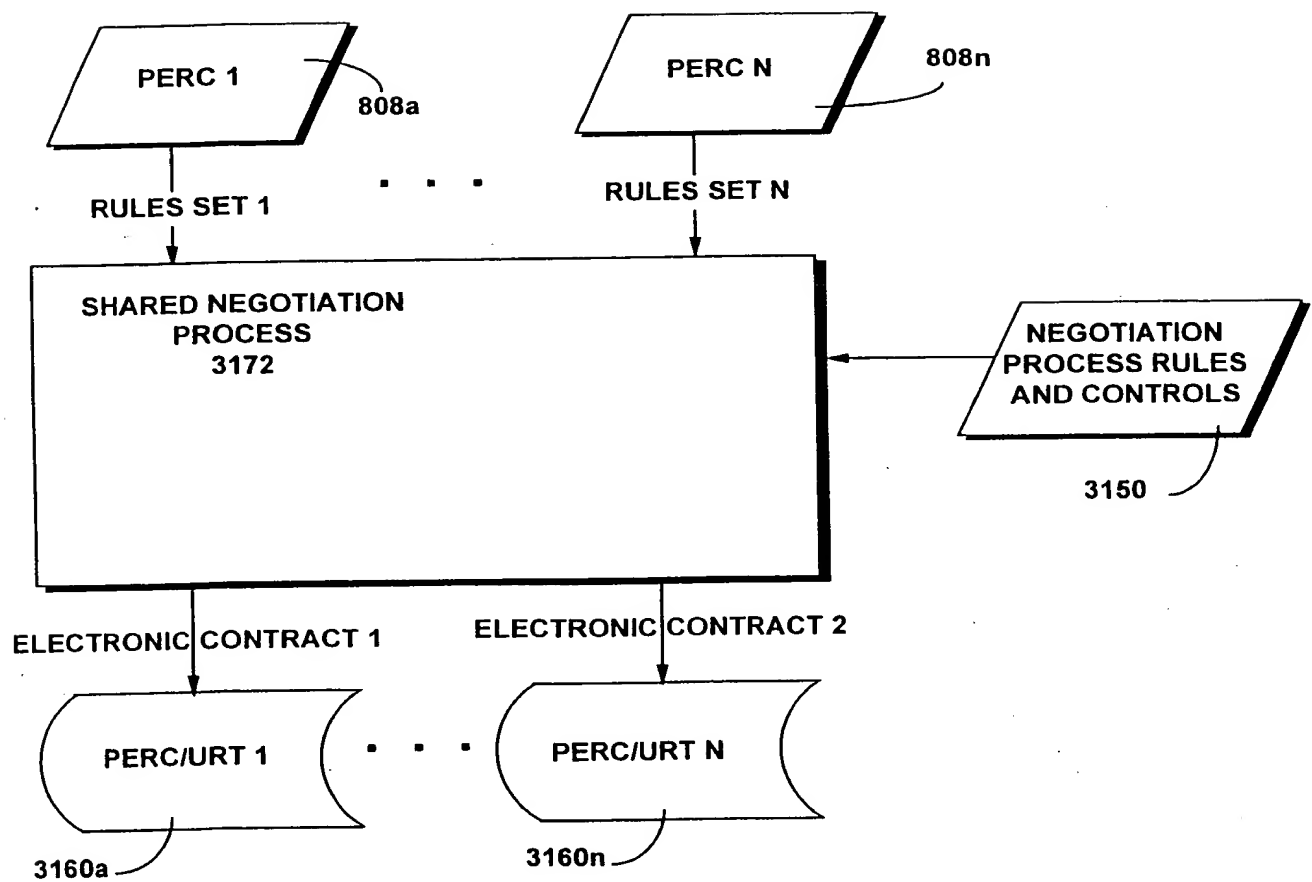


FIG. 76B

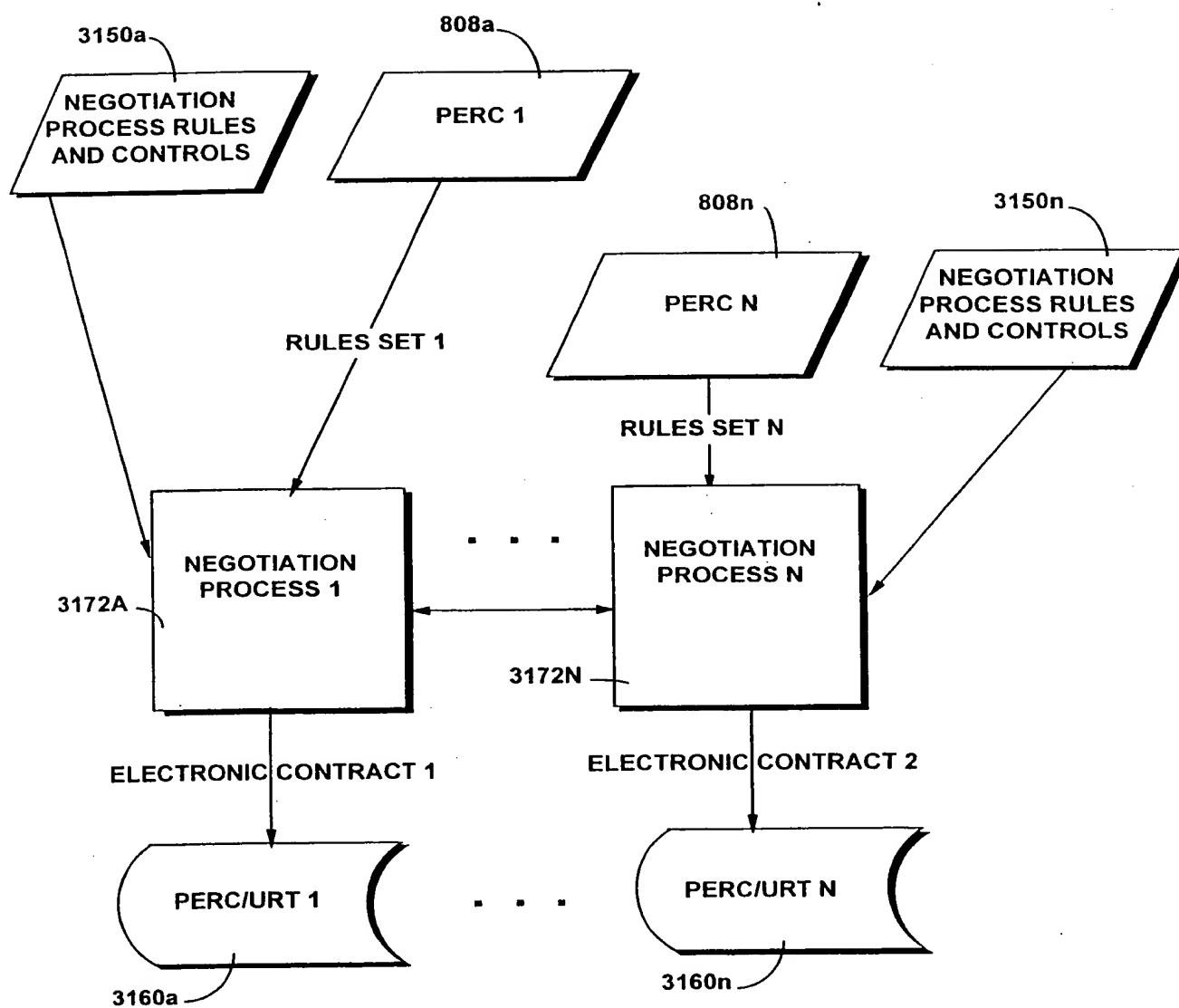
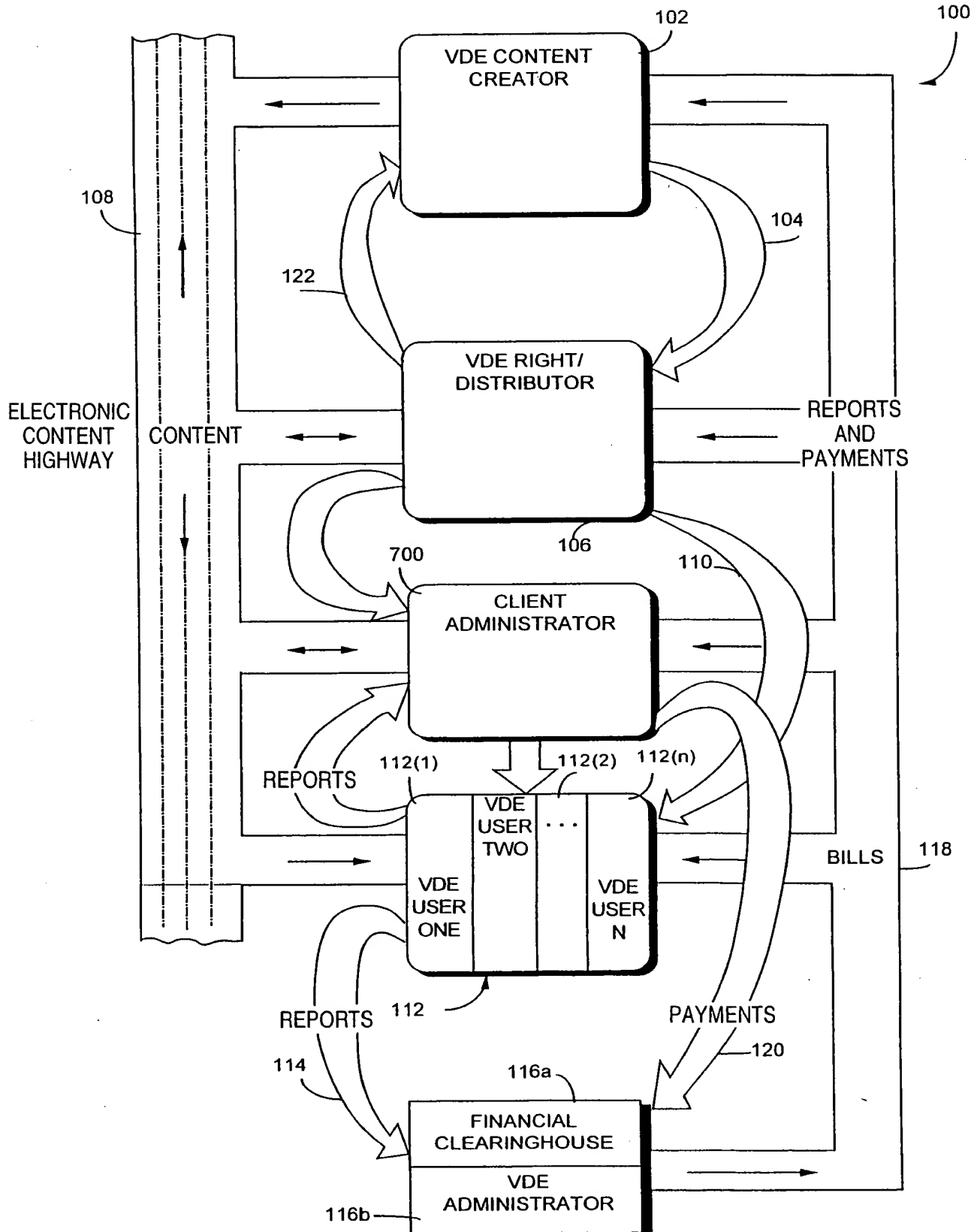


FIG. 77



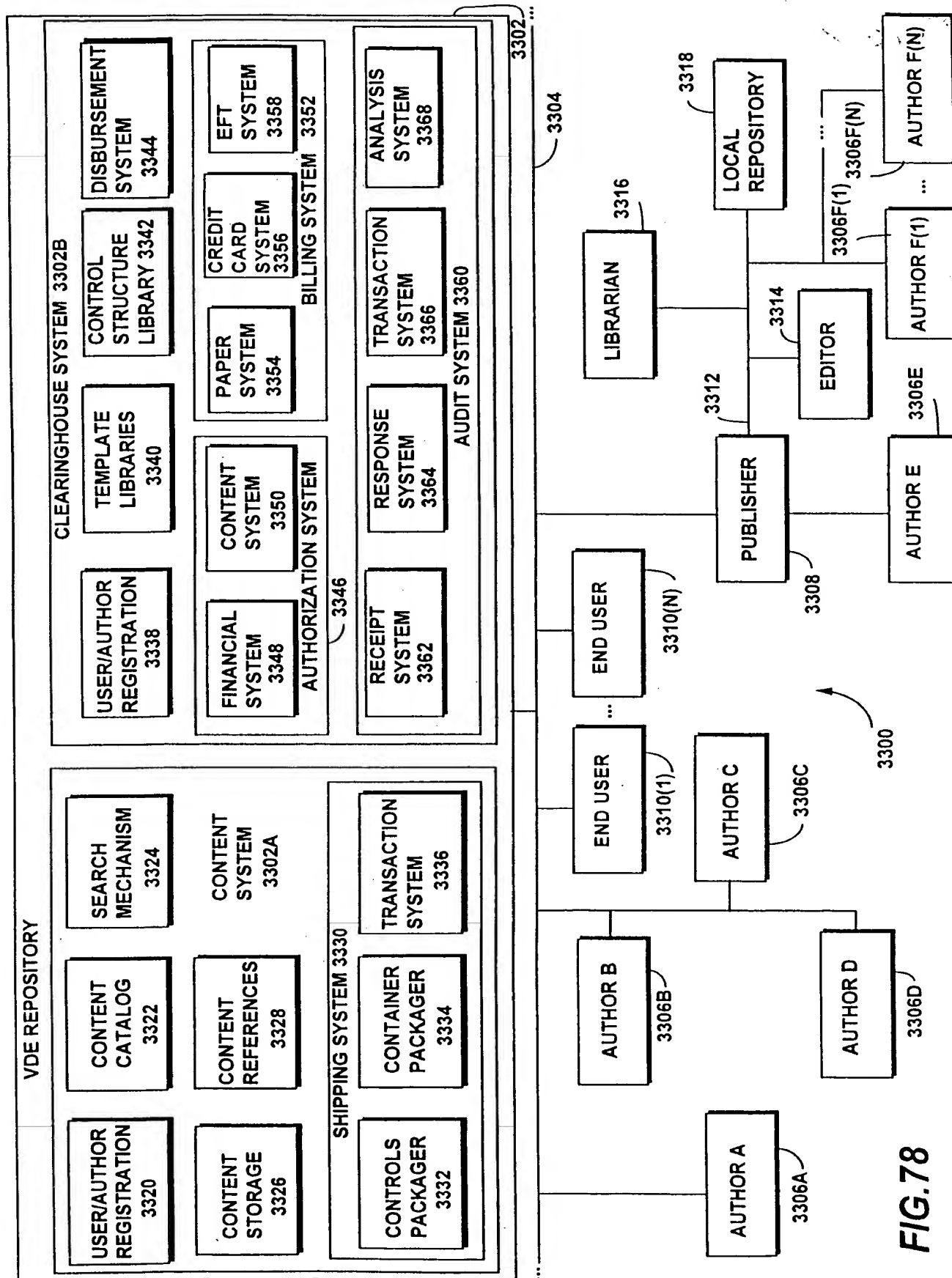


FIG.78

FIG. 79

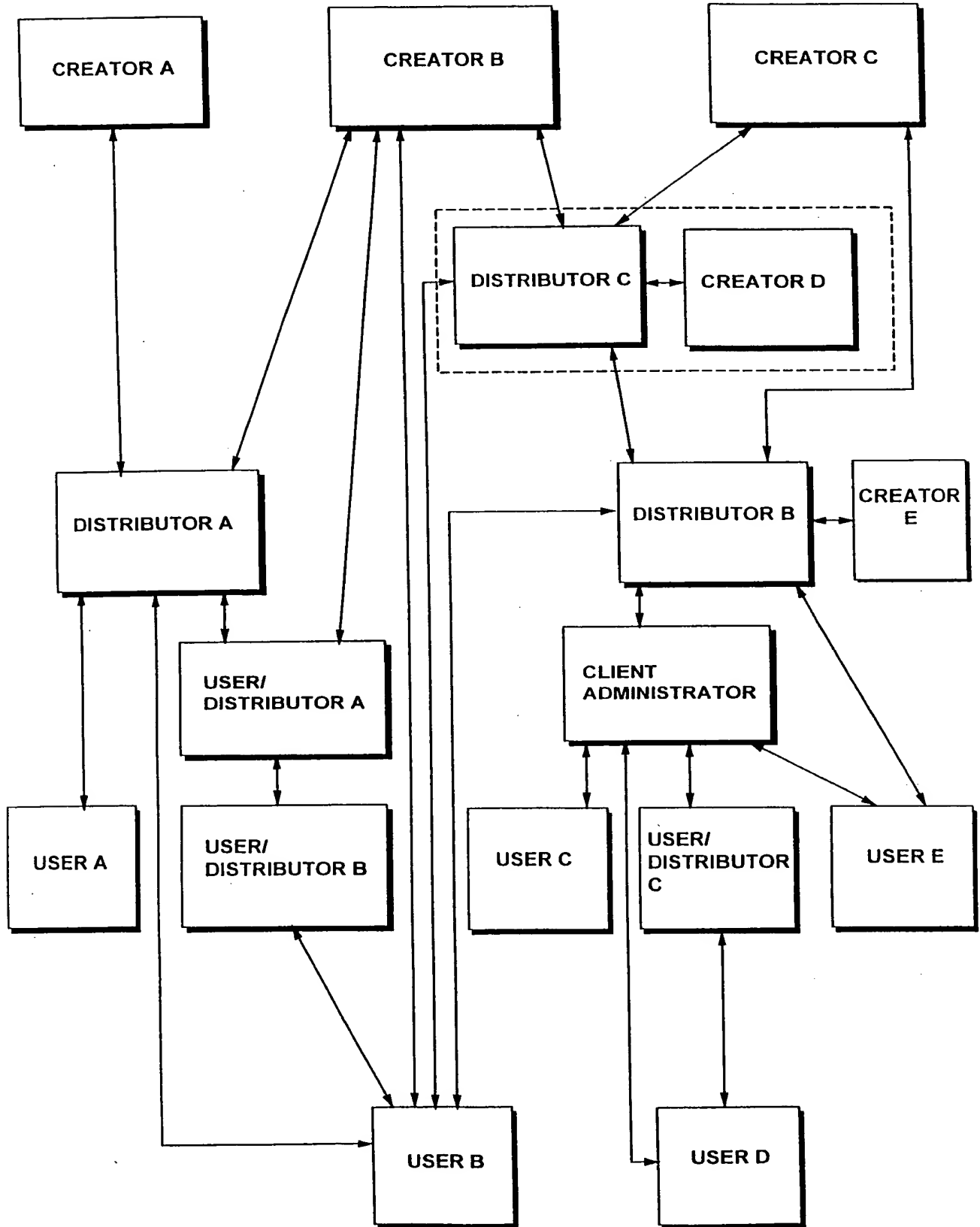


FIG. 80

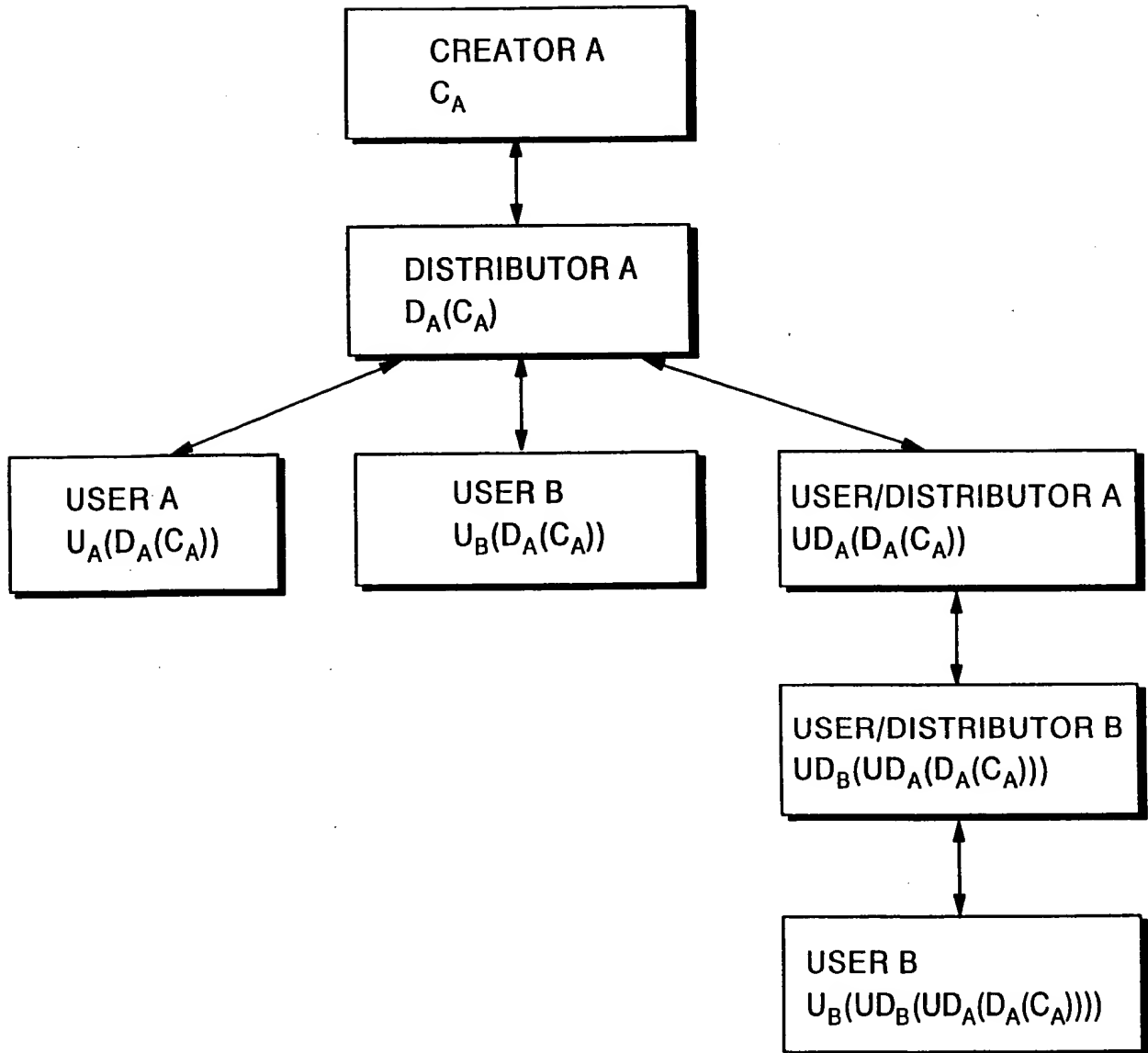


FIG. 81

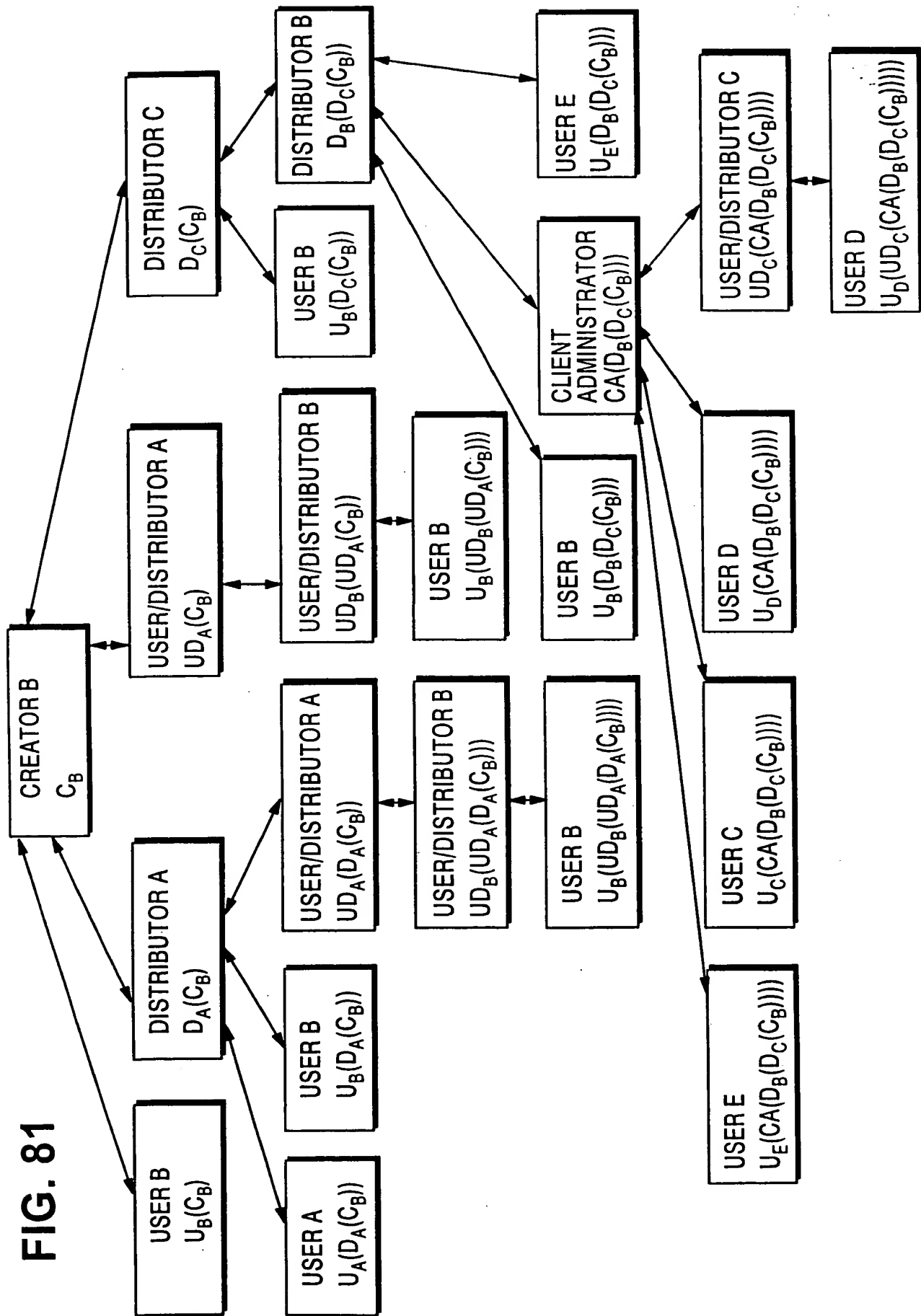


FIG. 82

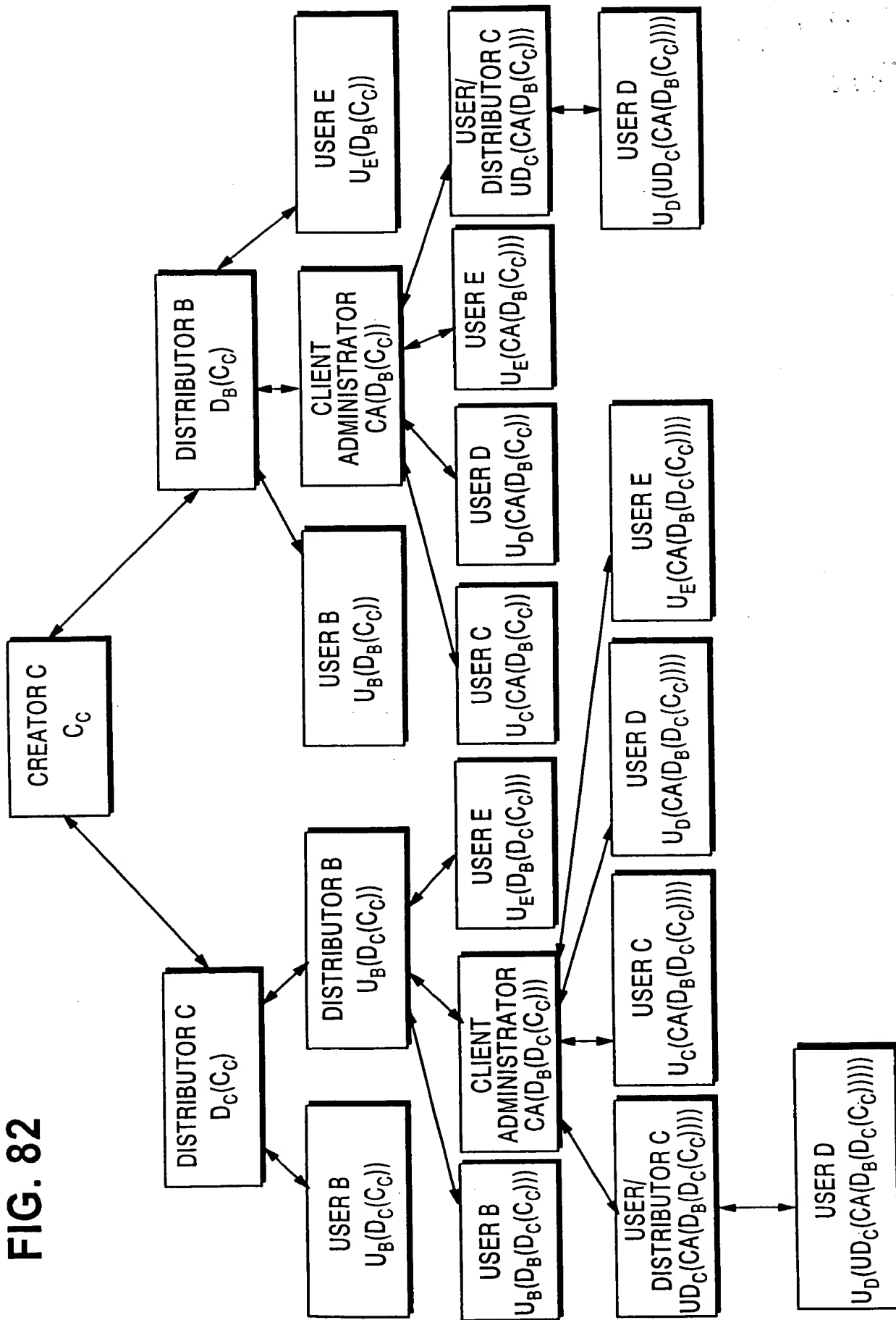


FIG. 83

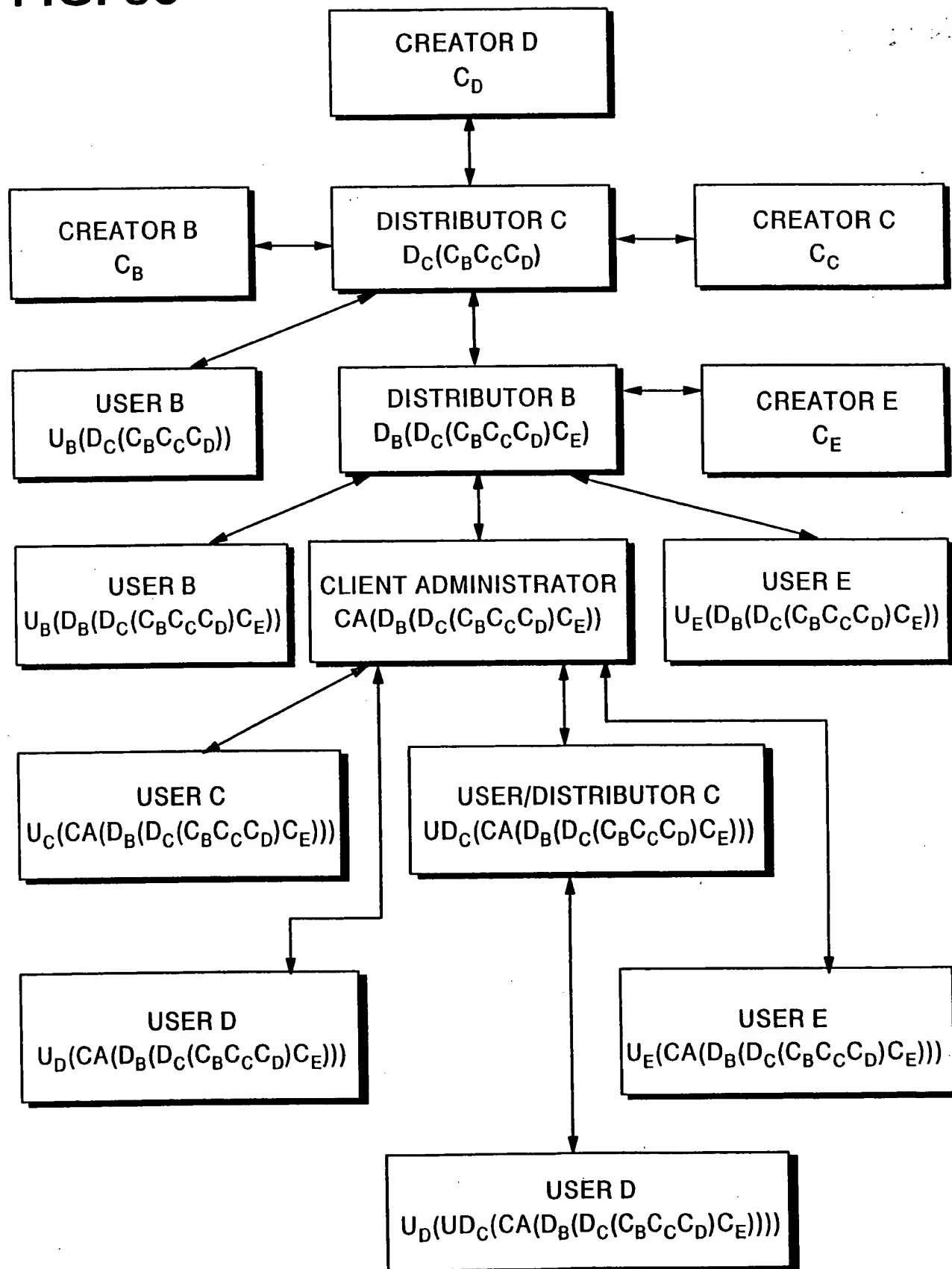


FIG. 84

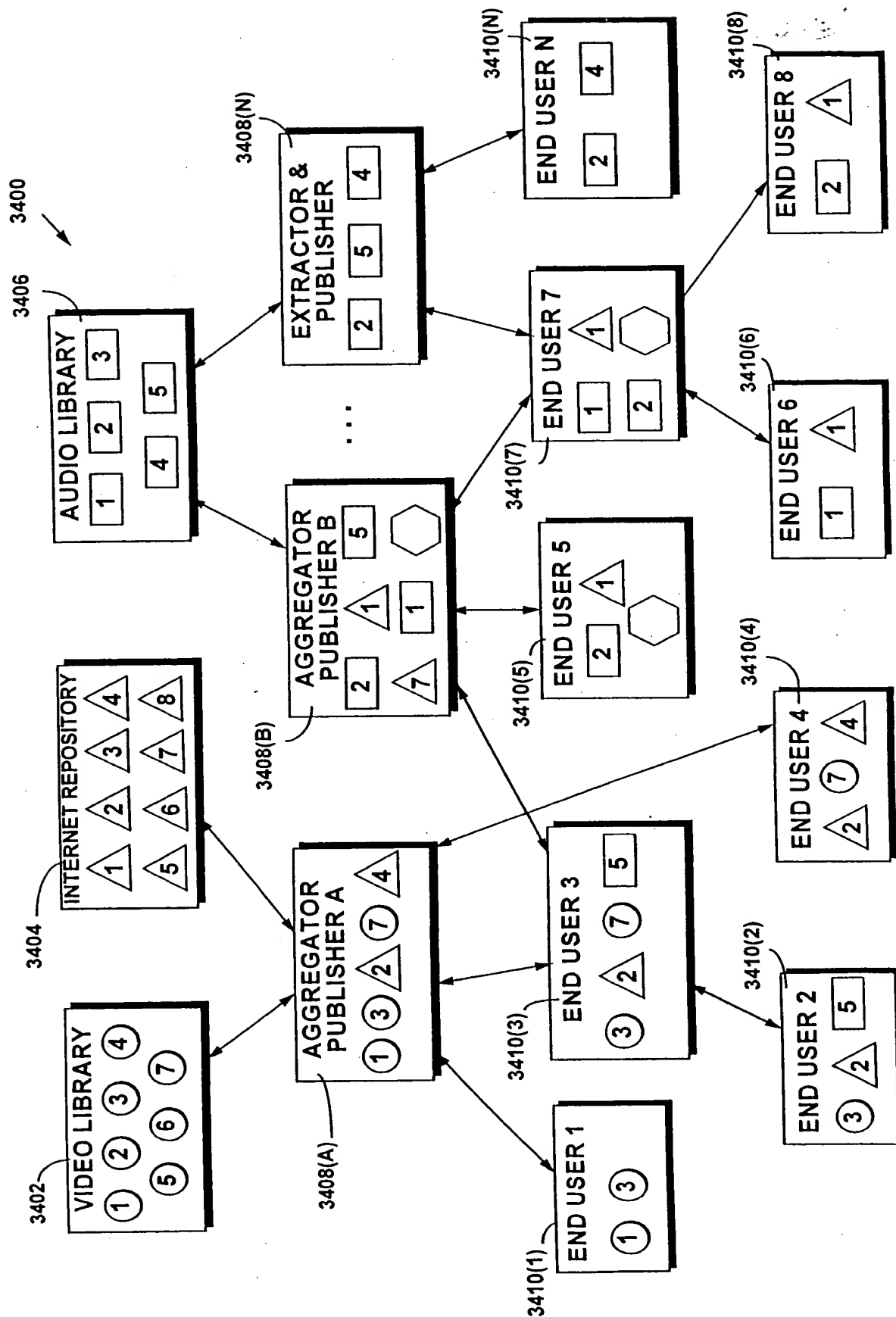
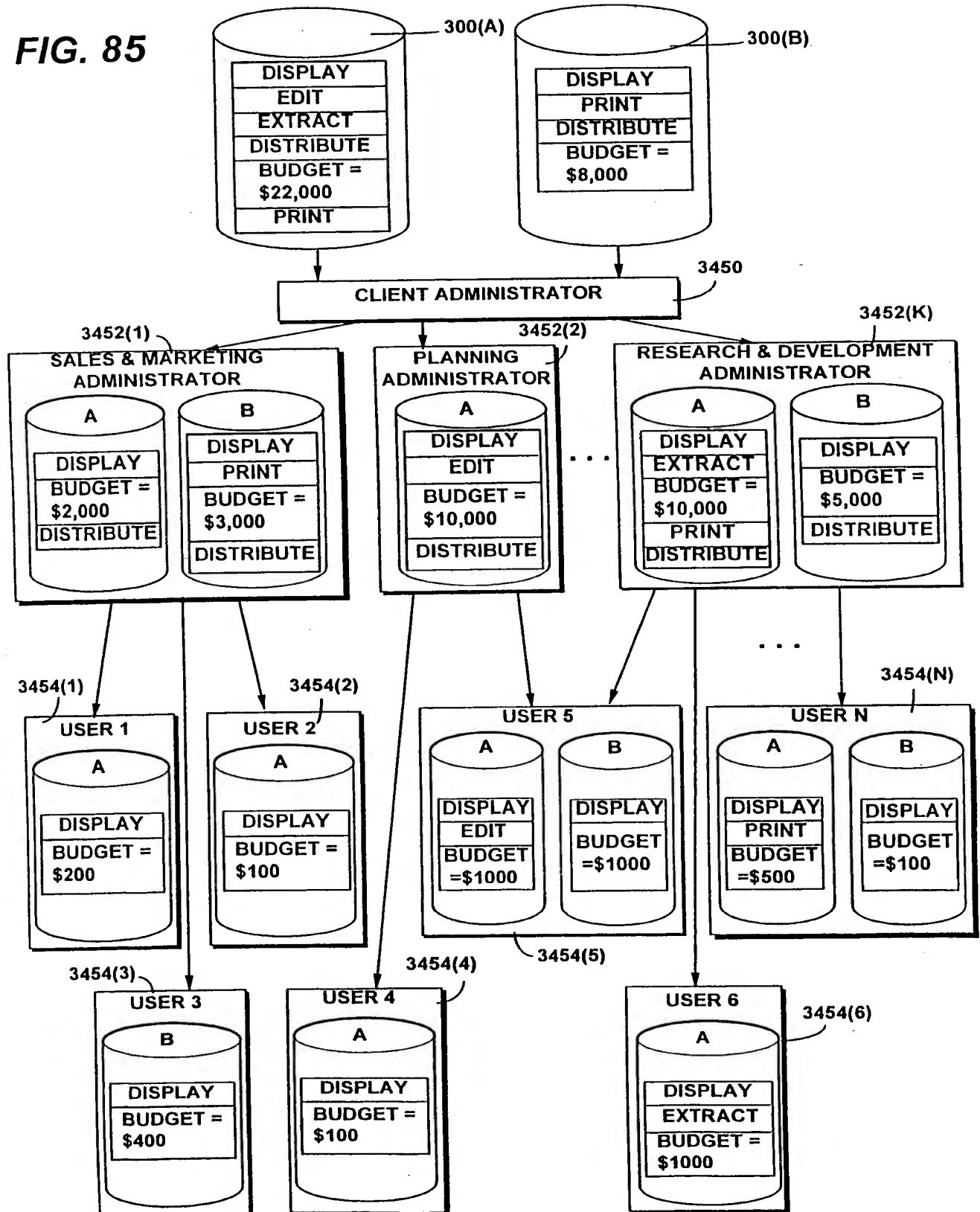


FIG. 85



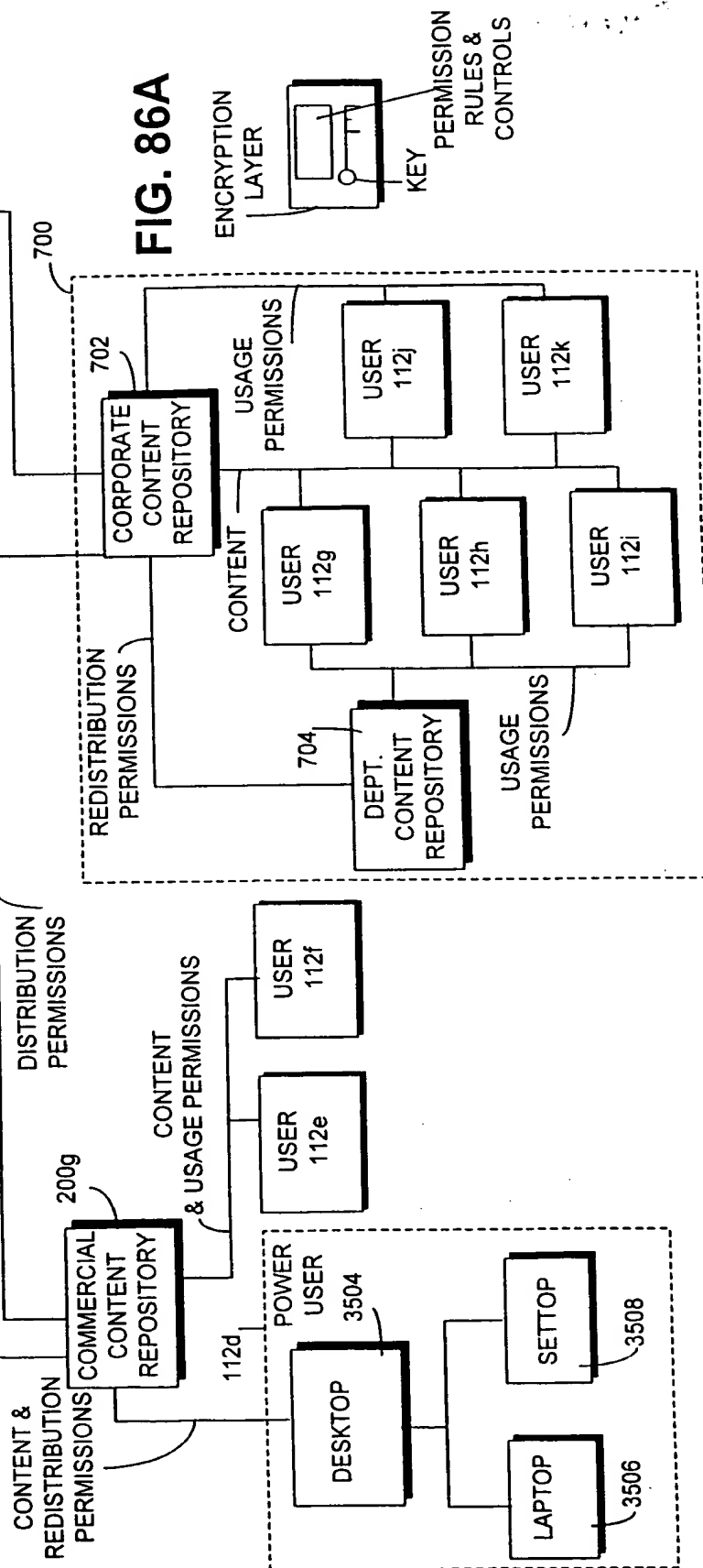


FIG. 86A

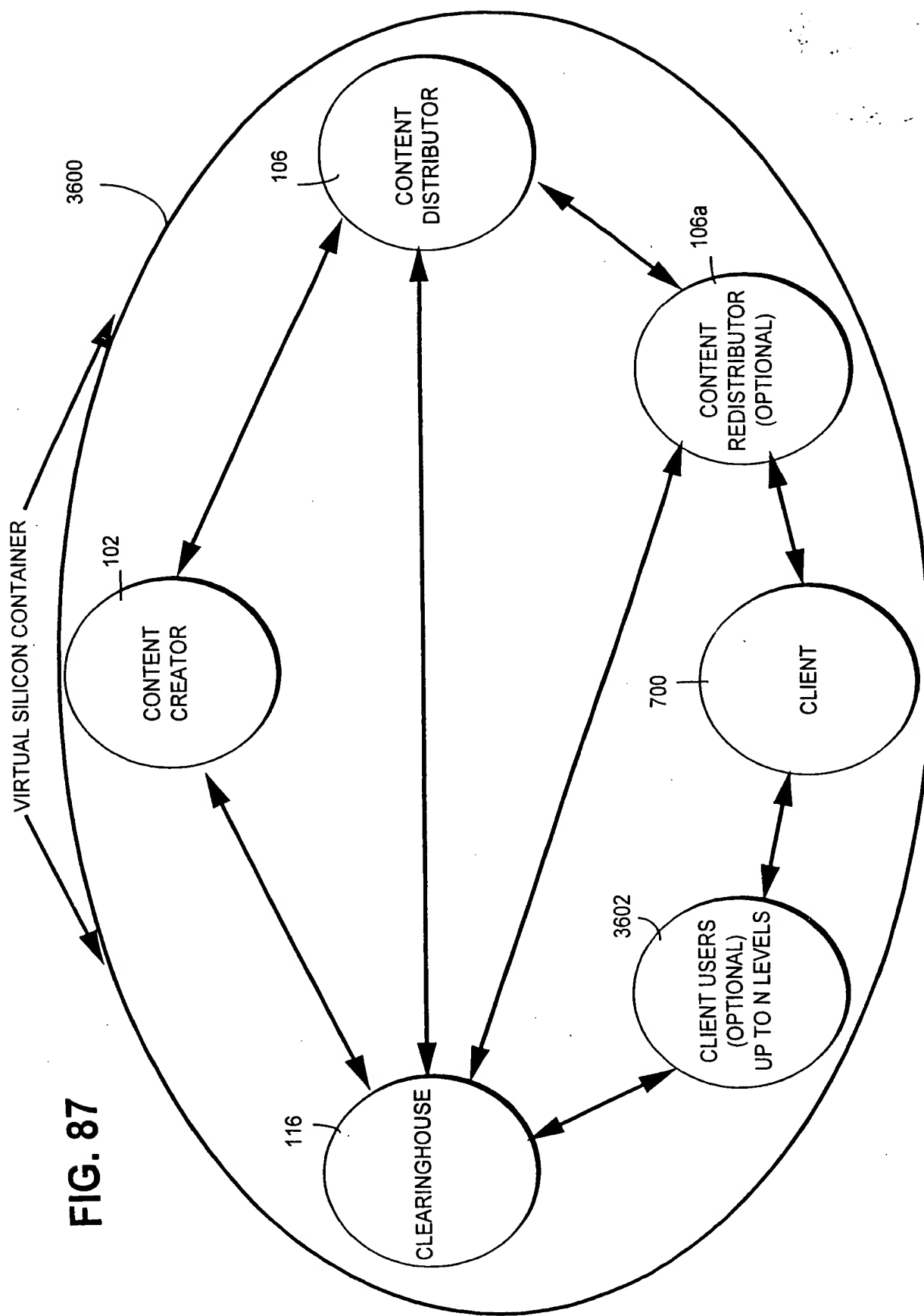


FIG. 87